# The American Artisan
## And Hardware Record

Vol. 47—No. 23. CHICAGO, JUNE 4, 1904. $2.00 Per Year.



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**BOLTS**

NUTS, WASHERS, CLIP TIES, FELLOE PLATES, CORNER IRONS AND
**CARRIAGE FORGINGS**
Write for our general Catalogue
COLUMBUS BOLT WORKS, Columbus, O.

**PURE ASPHALT ROOFING** — NEVER DRIES OUT OR CRACKS — Our Tarred Ready Roofing, Slaters' Felt, Building Paper, Roofing Cements, Paints, Etc.
WRITE US FOR PRICES
J. L. PERKINS & CO., 235 Lake Street, CHICAGO

**LEAKY ROOFS**
Are expensive to repair, and if neglected will cause a considerable amount of trouble. If a roof has some small leak or break, have it fixed at once or it will give trouble in the near future. In order to stop these leaks it is necessary to obtain
**Elastic Oil Cement—American Seal**
brand—and apply it to any leak, small or large. It never hardens. Prices for "American Seal" Elastic Oil Roofing Cement and Roof Paint are reasonable and we feel sure that if you write for them they will interest you.
Agencies: J. L. PERKINS & CO., 235 Lake St. CHICAGO, ILL.
STOCKHOFF SUPPLY CO., 107 N. Main St., ST. LOUIS, Mo.

**TINNERS FIND EMPLOYMENT**
By advertising and using THE POWERS AUTOMATIC CHIMNEY TOPS
They make chimneys draw, give tinners employment making stocks, and give the dealers profit.
Sold by Hardware Jobbers and Dealers.
Made only by POWERS BROS. STREATOR, ILL.
This cut free to dealers.

**NOTICE.**
We have exceptional facilities for handling American products: Hardware, Sanitary, Heating and Ventilating Goods. Branches in England and continent. References furnished.
ADDRESS
EXHIBIT & TRADING CO.
Main Office, 155 Duke St.
LIVERPOOL, - ENGLAND

**WE MAKE**
Stove, Tire and Carriage Bolts—Rods, Rivets, Machine Screws, Nuts, Hinge Pins and Special Bolts, Screws and Nuts of all descriptions
THE ATLAS BOLT & SCREW CO.
Cleveland, O.

Crying—to—do—business—without—advertising—is—like—winking—at—a—girl—in—the—dark;—you—know—what—you—are—doing—but—nobody—else—does.

**Black Diamond Files and Rasps**
PERFECT—ALWAYS
TWELVE MEDALS AWARDED
TRADE MARK
AT INTERNATIONAL EXPOSITIONS
G. & H. BARNETT CO.
Black Diamond File Works, PHILADELPHIA

**"TRIUMPH" CHAIN** HAS TWICE THE STRENGTH OF WELDED.
SEND FOR FREE SAMPLES, TABLE OF TESTS AND ASK QUESTIONS.

THE BRIDGEPORT CHAIN CO., BRIDGEPORT, CONN.
OVER TEN MILES OF CHAIN PER DAY. WE LEAD.

*Years ago it was "Be Good"—Now it is "Make Good"*

We class ourselves among the foremost makers of Base Burners—
If this be egotism—Our apology is—That we "Make Good."

# The Monarch Cinderella

Is a high grade base burner. Is a circulator or double heater; has five flues—three for radiation and two for circulation; has Ransom Duplex Grate and wear-resisting fire pot. Nickel parts; grates and fire pots removed without the use of tools.

**We also make**

## The Empress and the Imperial Cinderella Base Burners.

Same construction, same sizes, same fitting. Less nickel, therefore, less price—all are cheap.
We make and sell more high grade parlor stoves than any other Pennsylvania foundry, for the public is quick to see a bargain.

**Pittsburgh Stove & Range Co.**
**Pittsburgh, Pa.**

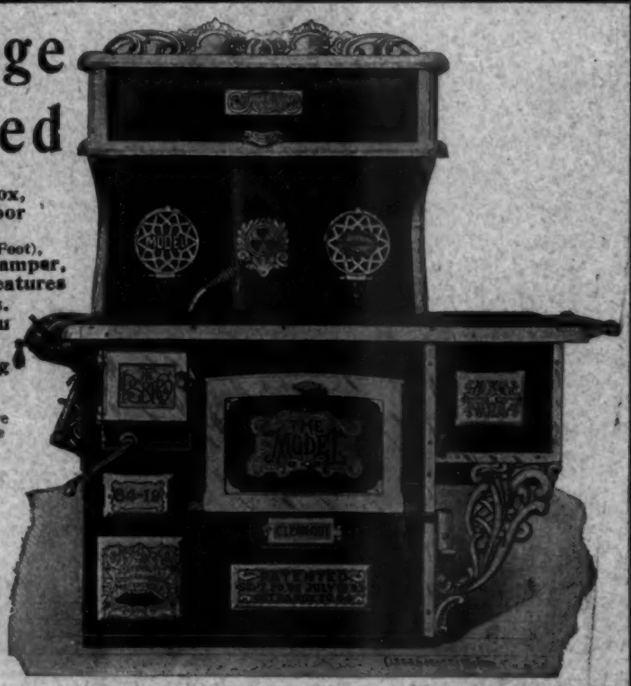
**Western Agency, W. D. SAGER, 38-40 Michigan St., Chicago.**
**SAGER makes good.**

# Model Steel Range
## With Our New Pouch Feed

END VIEW

**Patented Ventilated Fire Box,**
**Patented Balanced Oven Door**
**Patented Nickeled Kicker**
**(Operated with Foot),**
**Patented Reliable Rolling Damper,**
**Also other distinctive features found on no other Ranges.**
**When talking "Models" you are talking special features.**
**How is it when talking other Ranges?**

There are other points of which we can't tell you here. Write us for more

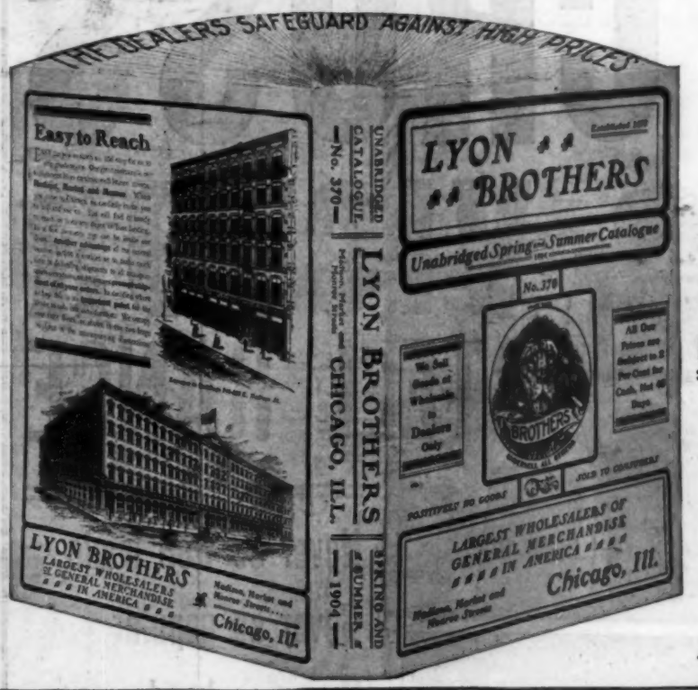


**THE**
**Portsmouth Stove & Range Co.**
**PORTSMOUTH, OHIO.**

**MORLEY BROS.,**
**Saginaw, Michigan,**
**Wholesale Agents for Michigan.**

THE BUSIEST MAKERS OF STOVES & RANGES IN THE WORLD

# A GREAT WHOLESALE CATALOGUE




## A 952-PAGE BOOK

THAT IS

## FULL

OF

# BARGAINS

## FOR THE HARDWARE TRADE

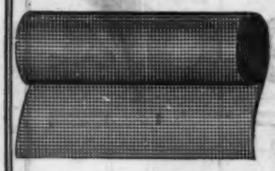
We send it FREE to Dealers on application or with an order for goods . . . . .

**Ask for No. AA 370**

# GREAT BARGAINS

**THAT YOU CAN'T MATCH ANYWHERE ON EARTH.** These prices are 25 per cent less than others ask and we **Guarantee** the goods to open up exactly as we state or accept return. **ORDER AT ONCE.**

### To Keep Out Flies Use
## Red Star Wire Screen Cloth



As good as any made, green or black, sizes 24, 26, 28, 30, 32, 34, and 36 inches, 100 running feet in a roll. If you pay more you can get no better.
Price per 100 square ft..... **$1.10**

## A Hot One

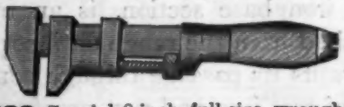
American Special Gasoline Stove with stationary tanks and individual burners, full **cabinet frames.**

Two burners, top 14½x21x14½ in. high. Each.... **$1.95**

## A Set of Three
### Mrs. Potts' Sad Irons

**54** Mrs. Potts' sad irons, put up in sets of 3 irons, 1 each 5, 6 and 7 lb. irons, patent adjustable wood handles, 1 sad iron stand, **full nickel plated,** japanned top, sold by the case only, 6 sets in a case.
Per set..... **54c**

## Prices Wrenched on Wrenches



**228** Special, 8-inch, full size, wrought steel jaws and screw, as strong as any on the market, 1 doz. in package. Doz.... **$1.50**

## Best Quality Flour Sifter
**at 75c Doz.**

10 Round handle, strong wire sieve, made of IC tin plate, crank through handle.
Doz..... **75c**

## PRESSED DOWN

**Invaluable for kitchen use, a fine fruit press.**

**Hennis pattern vegetable press.** Malleable iron, double tinned, strong malleable handles. Peels and mashes potatoes with one stroke. The best device of its kind made. Put up 1 doz. in a box.
Doz..... **$1.50**

# LYON BROTHERS

**Madison, Market and Monroe Sts.**

**Largest Wholesalers of General Merchandise in America.**

# Chicago

# RED CROSS

## VICTOR

## STEEL RANGE

**Never so well made**

**Never so popular**

**Never so handsome**

**Never so replete with special features as it now is in**

# 1904

It is built of the finest obtainable planished steel, with double plates interlined with asbestos.

Plunge damper in the top, and combination wheel register and damper in the pipe.

Linings of brick or iron as may be desired when hard or soft coal is used.

The grates are Duplex or Dockash, as may be preferred, and draw out in front instead of longitudinally, under our exclusive patents.

Cast broiling door of ample dimensions.

The oven door has a thermometrical indicator.

The ash pan is very large and deep.

Extreme bottom, or cast iron base section, is an exceptionally desirable feature. Through being loose and detached from the range until set up in the kitchen, a convenient dimension is secured which permits its passage through comparatively narrow doors.

The reservoir casings are of cast iron and rust proof.

**THE CO-OPERATIVE FOUNDRY CO., ROCHESTER, NEW YORK**

**JOHN KONTNY, Western Agent, 65-67 N. Desplaines St., Chicago**

# HOME RULE

can always be established by the man of the house. If he buys a

## "WINNER"

Range for his wife.

Therefore assist a man to display his good judgment by selling him a

## "WINNER"

that he may become boss of his own domicile.

Manufactured by

**The Ashland**
**Steel Range & Mfg. Co.**
**ASHLAND, OHIO**

# BONNIE OAK

Has an extra heavy fire bowl, and the body is made of Woods' refined extra smooth finish Sheet Iron. Has handsome nickel rail, screw register, name-plate and fancy Urn.

**Is made in five sizes,**
**Nos. 11, 13, 15, 17 and 19.**

These stoves are well mounted by experienced mechanics.

**Gem City Stove Co.**
**Dayton, Ohio.**

# TAKE HOLD,

**Mr. Dealer, of a Line that is both Attractive and Substantial.**

**Such a line is found in the**

## Champion and Marquart Steel Ranges

which possess every feature of genuine merit known to modern steel range construction and **have one feature found in no other range on the market** in the shape of an **additional flue,** which is below the main heating flue, and conducts the air through the ash pit to the combustion chamber.

**CHAMPION STEEL RANGE CO., Cleveland, Ohio.**

**J. M. LITCHFIELD, New York, Eastern and Export Agent.**

Any dealer looking for the best, most attractive, up-to-date and complete line of Ranges in America, should at once secure the sale of the

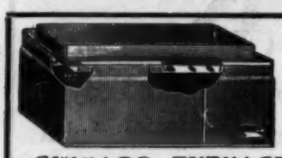
**HUB**

**SMITH & ANTHONY COMPANY,** 48-54 UNION STREET, BOSTON, MASS.

Manufacturers of Cooking and Heating Apparatus of Every Style and Description.

SCHLAFER HARDWARE CO
APPLETON, WIS.
WRITE:

"Please discontinue the "ad" in your paper in the Help Wanted column, as we have more applications now than we can answer."



## FURNACES, PIPE, ELBOWS AND FITTINGS

**CHICAGO FURNACE SUPPLY COMPANY, - - - CHICAGO.**

## PRIZE STEEL RANGES

# Foster

Makes a range that is without a peer. Everything about this new and improved costs no more than ordinary ranges. Order a sample and be convinced. *Send for printed matter.*

**The Foster Stove Co.**

**IRONTON, OHIO**

# THE RADIANT HOME FORCE DRAFT FURNACE

## Original Air Blast Fire Pot with Force Draft Ring

FOUR SIZES. Nos. 322, 324, 326, 328.

Burns every Kind and Quality of

**Soft Coal, Coke and Lignite.**

**PERFECT COMBUSTION.**

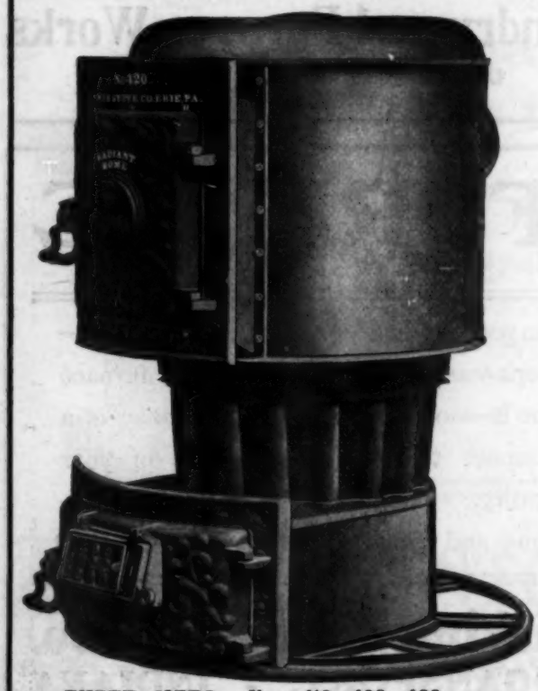
Soft Coal Burned as Cleanly as Hard Coal.

LARGE ONE-PIECE RADIATOR
LARGE DOUBLE FEED DOORS

Most intense heat with cheapest grade of fuel.

FIRE POT GUARANTEED FIVE YEARS.

## Only Correct Method for Burning All Kinds of Soft Coal.



THREE SIZES. Nos. 418, 420, 422.

**A LEADER**

**High Grade, Low Price, Powerful Heater**

For Soft Coal, Hard Coal, Coke, Lignite and Wood.

AIR BLAST FIRE POT. LARGE HEAVY RADIATOR.
EXTRA LARGE FEED DOOR.

Can be sold at Retail at less than wholesale price of other makes.

FIRE POT GUARANTEED FIVE YEARS.

## GERMER STOVE COMPANY

**Western Branch:**
**231-247 NEWBERRY AVE.**
**CHICAGO, ILL.**

**Main Offices and Foundries:**
**Erie, Pa.**

# WE GUARANTEE

THAT THE

## MUELLER

DOUBLE RADIATOR, ALL CAST IRON FURNACE

Contains More Direct

**Heating Surface**

THAN ANY OTHER HEATER MADE

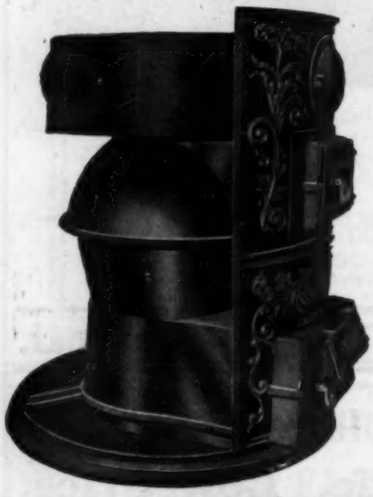
Write for catalogues of Furnaces and Boilers.

**Get Our Price on REGISTERS,**

(FLOOR AND WALL.)

## L. J. MUELLER FURNACE CO.

191 REED STREET ESTABLISHED 1867. MILWAUKEE, WIS.



# Green's Furnaces

Up to date. Modern Construction.

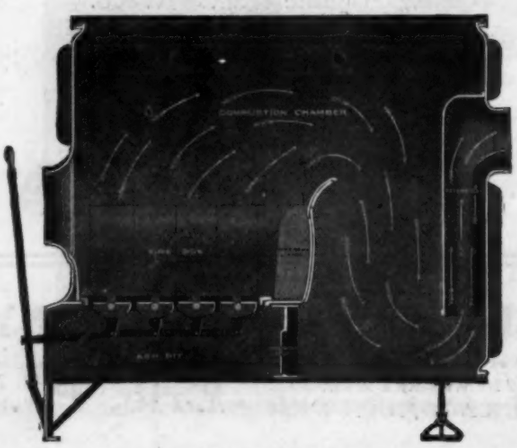
Green's Low Down for Soft Coal.
Green's Crescent for Hard Coal.
Green's Wood Furnace for Wood.
Special Furnaces for all Fuels.

Catalogue tells all about them

## Green Foundry and Furnace Works

DES MOINES, IOWA.

# FLATIRON FURNACE



Shaped like one—endures like one too—keeps warmth like one. No other furnace like it—none so good. An agency is a passport to the furnace trade of your locality. Why not write us for catalogue and terms?

## Miskimen Furnace Co.

LOGANSPORT. - INDIANA

# TRIUMPH FURNACES WEAR THE CROWN

TRIUMPH KING FURNACE. Five Sizes. Hard or Soft Coal. Portable or Brick Set.

**CRAIG-REYNOLDS FOUNDRY CO.**
**DAYTON, OHIO**

**JOHN KONTNY**
**65-67 N. Desplaines St., CHICAGO**
**WESTERN AGENT**

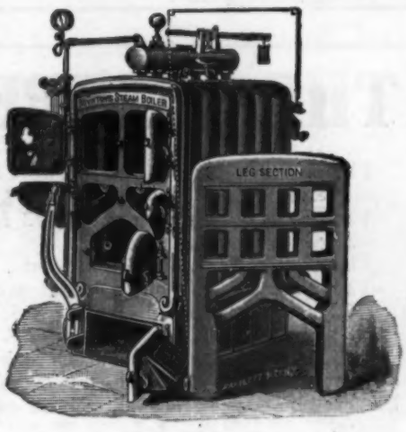
1904

# The Old Reliable

MANUFACTURERS OF
UP-TO-DATE HEATERS

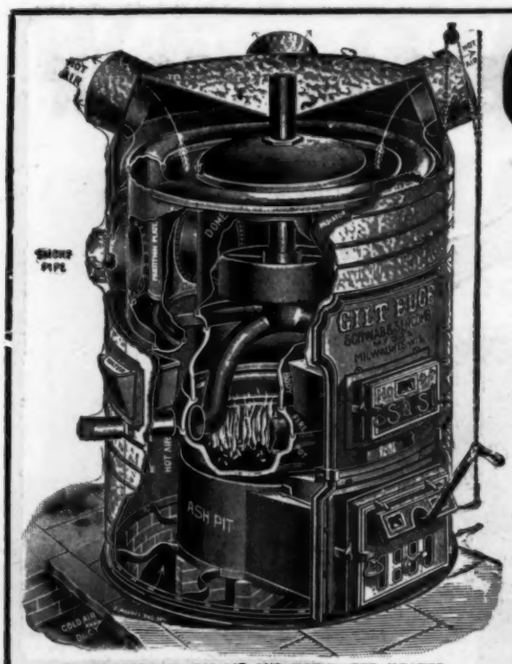
## Steam, Hot Water and Hot Air

We are making large additions to our works and output capacity, to meet the rapidly increasing demands of our trade.



**The BOYNTON FURNACE COMPANY**
NEW YORK CHICAGO

1904



COMBINATION WARM AIR AND HOT WATER HEATER.

# GILT EDGE FURNACES

**GILT EDGE** in construction.
**GILT EDGE** in up-to-dateness.
**GILT EDGE** in durability.
**GILT EDGE** in economizing fuel.
**GILT EDGE** in ease of operation.
**GILT EDGE** as money makers for the dealer.

SEND FOR CATALOGUE

**R. J. SCHWAB & SONS CO.**
**MILWAUKEE, WIS.**

HEIGHT OVER ALL 63 INCHES.

# Stanton Seamless Warm Air Furnace

If you want the best, The Stanton will appeal to your judgment.

**Seamless** and proof against leakage of smoke, gas and dust from the firebox to the warm air pipes.

Lined with fire-clay blocks. **Portable** Cased or **Brick Set.** Nothing like it.

Burns soft coal slack. Sells on its merits. It will assist you in building up a profitable business.

WRITE FOR CATALOGUE.

**The Stanton Heater Company**
**MARTINS FERRY, OHIO**

# THE CHAPPELL

**COMBINATION ALL CAST IRON LOW DOWN WARM AIR FURNACE**

The principle of radiation in The Chappell is positively correct.

The smoke makes a circuit of 22 feet before passing into the smoke pipe.

The Chappell has only eight joints.

The accompanying cut illustrates our No. 2 and 12 series, for burning long wood or soft coal.

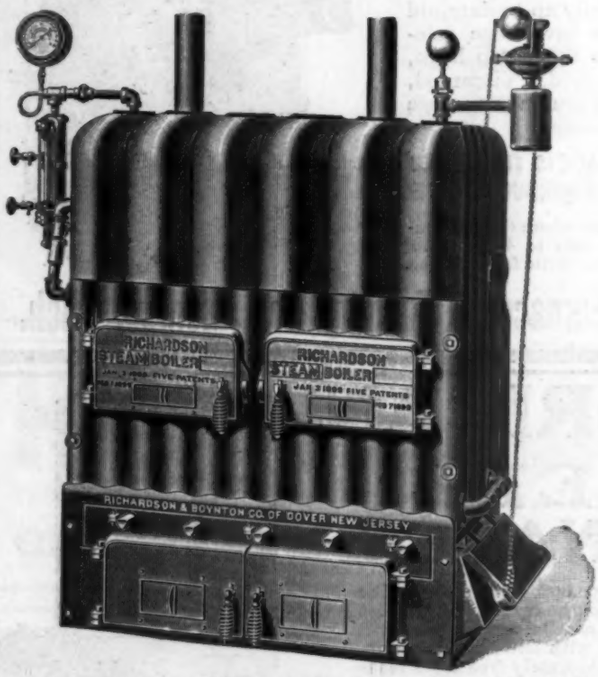
Our No. 20 and 22 series are 8 inches higher and are provided with a heavy corrugated fire bowl for burning hard coal, also an extra set of grates.

The Chappell weighs over a ton, but costs no more than many furnaces of half the weight.

Send for catalogue showing rear view.

**The Chappell Furnace Co.**
**Morenci, Mich.**

# HOT WATER AND STEAM

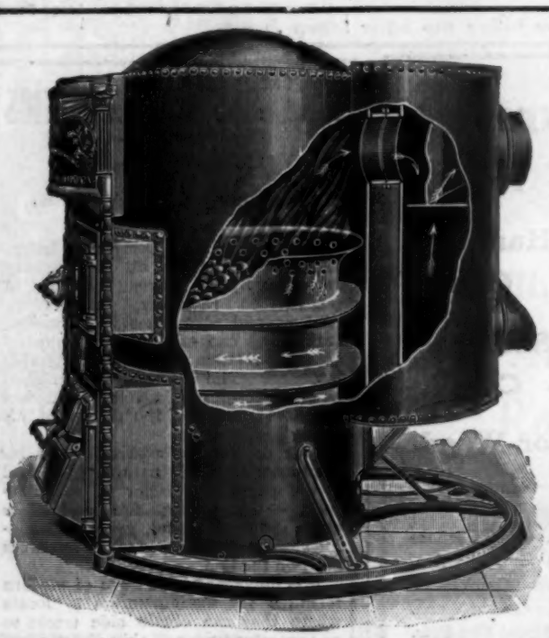



## Richardson Tubular Sectional BOILER

**Capacities from 450 to 7500 ft.**

## RICHARDSON & BOYNTON COMPANY

**234 Water Street, NEW YORK 84 Lake Street, CHICAGO**



# WEIR

All-steel gas and soot consuming furnace is the heaviest steel furnace made. Absolutely gas and dust tight. A great heat producer and fuel saver.

**MEYER FURNACE CO., Peoria, Ill.**

# HANDY

Furnace pipe is the safest made, easiest to put up and cheapest made.

**F. MEYER & BRO. CO., Peoria, Ill.**

# Floral City Furnaces

Are strictly up-to-date, old patterns have been relegated to the scrap heap, old methods discarded, but they are in no sense experiments.

**EVERY FURNACE IS TIME TRIED AND HAS BEEN THOROUGHLY TESTED**

in a climate where the temperature often falls to 40° and 50° below zero. Write for catalogue.

**Monroe Furnace & Foundry Co., Monroe, Mich.**

# AMERICAN STEEL FURNACES

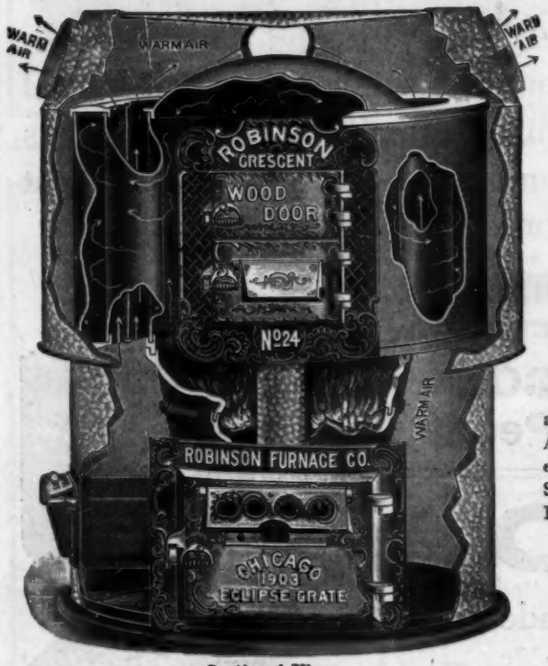
are made of heavy steel, riveted tight like a boiler. You know heavy steel ranges cost much more than cast iron ones, but will last much longer with little or no repairs. They are clean, absolutely free from leakage of gas or smoke.
The firepots do not crack like cast iron ones and are much cheaper in the end.

**The American Furnace Co.**
**1911-13 Pine Street, - ST. LOUIS, MO.**

Large Radiators, Easy to Clean Out. Burn Hard or Soft Coal or Coke. Large Doors.

Write for prices and secure the agency before the other fellow gets it.

# Robinson Crescent Furnace




Sectional View.

**FOR**

**Hard Coal**

**Soft Coal**

**or Wood**

A Good Furnace at a Medium Price.
A Good Quick Heater for Coal or Wood.
Sectional Fire Pots.
Double Feed Doors.

WRITE FOR CATALOGUE

**ROBINSON FURNACE CO.,** 105 Lake St. CHICAGO

# Locations for Industries

## *Erie Railroad Chicago to New York.*

The Erie Railroad Company's Industrial Department has all the territory traversed by the railroad districted in relation to resources, adaptability, markets and advantages for manufacturing, and can advise with manufacturers in relation to the most suitable locations. The information furnished a manufacturer is reliable and has practical bearing on the nature of his particular industry.

Vast deposits of anthracite and bituminous coal, oil, natural gas—fuel is the paramount factor in manufacturing—sewer pipe, fire and other clays, cement material, gypsum, building stone and numerous other resources exist on the line.

It is important in this age of modern facilities for manufacturers to locate where they can obtain side tracks so as to receive from and ship directly into cars at the factory. Information can be promptly furnished in this connecton about every point on the system between New York and Chicago.

The undersigned will be pleased to furnish full information to manufacturers and local parties contemplating the establishment of new industries.

Address, **LUIS JACKSON,**
Industrial Commissioner
Erie Railroad Company,
21 Cortlandt Street, New York.

# Emperor Furnaces
FOR WOOD.

**Simple, Safe, Durable. Economical in Fuel.**

The Best and Cheapest Line of Wood Furnaces . . .
Furnished for either Brick or Galvanized Iron Casing.

SEND FOR CATALOGUE.

Bergstrom Bros Co.

NEENAH, WIS.

# HERO FURNACES ARE THE BEST FOR A COLD CLIMATE

WRITE FOR CATALOG

**CHAS. SMITH CO., : 101 Lake St., Chicago, Ill.**

HEAT LIGHT
FOR THE
HOME
STORE
HOTEL
SCHOOL
CHURCH
OFFICE
COLLEGE
THEATRE
FACTORY
VILLAGE
INFORMATION FREE
SEND FOR IT.
DETROIT HEATING AND LIGHTING CO.
DETROIT MICH.

# Hart & Crouse Co.

UTICA, N. Y.

## Royal Heaters

235 Water St., New York.

79 Lake St., Chicago.

**Steam, Hot Water, Hot Air Furnaces, Radiators.**

100
# TINNERS' PATTERNS

COMPLETE FOR
**$1.00**

Sent Postpaid on Receipt of Price.

DANIEL STERN,
69 Dearborn St. CHICAGO.

# MONCRIEF

**WARM AIR FURNACE.**

Specialties:
- All Cast Iron.
- Moncrief Duplex Grate.
- Large Radiating Surface.
- Double Fire Pot.
- Large Grate Surface.
- Top Return Flue.
- Simplicity, Durability, Economy.
- Cleanliness in Use.

**HENRY & SCHEIBLE CO.**

6-8-10 Long St. Cleveland, O.

## Ever tried to sell a competition furnace?

Of course you started in by claiming everything in sight—most heat—big saving in coal—all that sort of thing. Ever had the man ask why? Hard to explain, wasn't it?

You know how it is yourself. Competition furnaces are as like as two peas in the same pod—one may be better than the other—but it is mighty hard to prove it.

It is hard to prove anything without a reason. When you talk "Thatcher" it is easy, because for fifty years the "Thatcher" has been adding real reasons, right from the ash pit, which is so deep that a day's ashes cannot bank up enough to burn out the grate to the solid cast smoke ring. Every part of the "Thatcher" is made the way it is, because there is a reason why, not because it is cheap. Think it over.

We have worked out a system to help our dealers. It is a very good system, and with a very good heater it means very good results.

Drop a line and we will drop in with details.

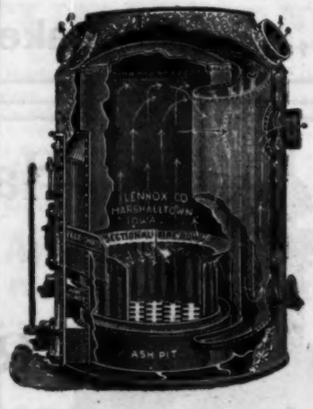
*Thatcher Furnace Co.*

240 Water St., New York.
Works: Newark, N. J.

NOTE—We do not sell to consumer, either directly or indirectly, but sell through the trade only.

STAR STOVES AND RANGES
STAR SHOVEL & RANGE CO. VINCENNES, IND.
GUARANTEED

**VINCENNES, INDIANA**



ON ACCOUNT of the increased demand for the

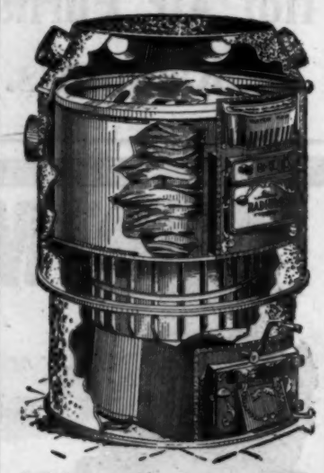
## Torrid Zone Furnace

we have been compelled to move our business into new and larger quarters. We now have the best equipped factory in the West for the manufacture of Furnaces, and are better prepared to supply our customers than ever before. Write

**LENNOX CO.**
**MARSHALLTOWN, IOWA,**

for prices and terms on ***Hot Air Furnaces*** and on ***Combination Heaters.***

# RADIUM FURNACES



The Easiest to set up and encase.
The Lowest in height.
Corrugated cast iron combustion chamber
Fused Joints.
Automatic Gas and Direct Draft Damper.
Water Pan above the feed door.
Fire Pots in two sections are provided with flanges which aid durability and increase radiation.
The Grates are triangular with revolving bars.
Feed Doors are double.
Burns any kind of fuel.
Particularly economical for hard coal.
The Combined Dome and Radiator with Direct Draft and Automatic Gas Damper is an original feature.
The Cast Iron Combustion Chamber is practically a continuation of the fire pot.
Secure Agency at once.

**The Auer Register & Mfg. Co.**
**TOLEDO, OHIO.**

# PROGRESS IS NO LONGER BARRED

**Is the KEY that unlocks the door of trade expansion, and brings the progressive Manufacturer and Jobber in touch with the leading and most up-to-date retail hardware dealers in the country.**

**DANIEL STERN, Publisher and Proprietor,**

**69 Dearborn Street, CHICAGO.**

# Are You Going to Get on the Band Wagon?

We *doubled* our register sales last year and from the present outlook will *triple* them this year.

**W H Y ?**

**Because we make good Goods**

SEND FOR CATALOGUE

**Stowell Mfg. & Fdry. Company**

**SOUTH MILWAUKEE, WIS.**

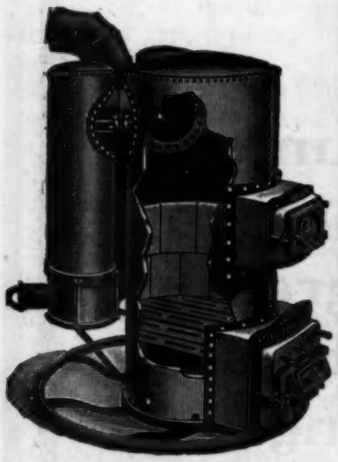
# 40 SQUARE FEET OF HOT STEEL!

**IN THE RADIATOR ALONE OF THE Canton Perfect Blast Furnace to make Warm Air.**

"JUNE COMFORT IN JANUARY"

**The CANTON PERFECT BLAST.**

**THE BONNOT COMPANY, Canton, O.**



**"VERTICAL LINES"**

That's the kind used in the

# FRONT RANK

Hot Air Furnaces. Their use brings the air in direct contact with entire heating surface.

**The Front Rank Fire Chamber** is one solid sheet of closely riveted steel; being lined above the fire lines with genuine fire clay tiling, it is the most durable made.

The radiatiors are very large and have an unusual area of heating surface in comparison with size of the fire pot.

These furnaces burn hard or soft coal or coke. We also make wood burning furnaces.

Send for our catalogue; it will give you a better idea of what we make.

**Haynes-Langenberg Mfg. Co.**

2301 to 2309 Lucas Ave., St. Louis, Mo.

# JAHANT
## HOT BLAST FURNACES

**Simple, Durable, Economical.**

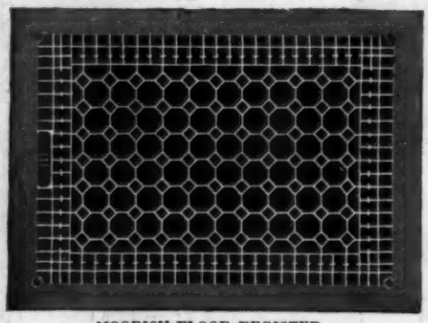
Adapted for all classes of buildings.
Made with Cast and Steel Radiators.

*Ask for our catalogue.*

**ROHRBACHER & ALLEN, Akron, Ohio.**

**W. B. KIRK & CO., Conneaut, O., write:** "Please discontinue our ad. for help. We are flooded with answers."

"REGISTERS OF QUALITY"



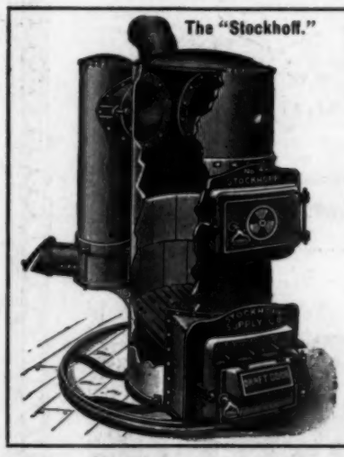
MOORISH FLOOR REGISTER.

THE FERROSTEEL COMPANY,

CLEVELAND, OHIO
Offer two lines for 1904.

1. *The time tried and reliable line of Ferrosteel goods noted for accurate mechanism and perfect finish.*
2. *Our new Modified Steel Register combining an absolutely rigid top with an invulnerable bottom.*

**Genuine Moorish or Plain Lattice Tops furnished with either line. All our goods are labeled. None others are genuine. Catalogues, prices and Special Circular illustrating our SIDE WALL REGISTERS on application.**



The "Stockhoff."

FURNACES
and Furnace Supplies
TUTTLE & BAILEY AND SYMONDS
SIDE WALL REGISTERS
Write for Catalogue and Prices.
Stockhoff Supply Co.
107 N. First St., - - ST. LOUIS, MO.

The Under-Feed Furnace
BURNS SOFT COAL
A CHEAP FIRE. A LASTING FIRE. A CLEAN FIRE.
SAVES 1/2 THE COAL BILL.
If you are looking to the future in your furnace business; want satisfied and pleased customers; want every furnace set to prove a standing advertisement for the sale of others, let us send you catalogue and prices—The Under-Feed fills the bill.

WESTERN FURNACE AND FOUNDRY CO. : OMAHA, NEBR.

"It is true that advertising will not put merit into poor merchandise, but good merchandise often becomes poor for the want of good advertising."

—*Some Essential Oils for Advertising.*

WARMTH
ON THE FLOOR

The only Floor Warm Register manufactured.

C. H. FOSTER
3403 Bell Ave., St. Louis, Mo.

MAKER LARGEST LINE OF WALL REGISTERS

# ROUND OAK
## Standard of America

On April 20, 1904, solid ice was formed and frozen one-inch thick right here in Southern Michigan—the "garden spot of America (?)"
The wind was directly in the north, and blowing good and hard, and it was c-o-l-d with a chilliness that beats 40° below.
Not a word had been said about the peach crop, for not a bud had had a chance to come out and get "froze." And not a furnace man is going to brag about how little coal his furnace has burned THIS past winter—if he loves the truth.
It certainly has been a long and strenuous winter, and we imagine that all those people who sat up nights to keep the fire from going out are going to listen and take interest when some one says "good furnaces," "perfectly heated rooms," "warmth and comfort," and similarly comfortable things which go with a high-class furnace and the modern, up-to-date know-how-to-put-them-in.
We invite the furnace dealer who can be interested in a furnace of quality to investigate The Round Oak Furnace and Round Oak methods of installing.
IT WILL PROVE A GOOD MOVE!

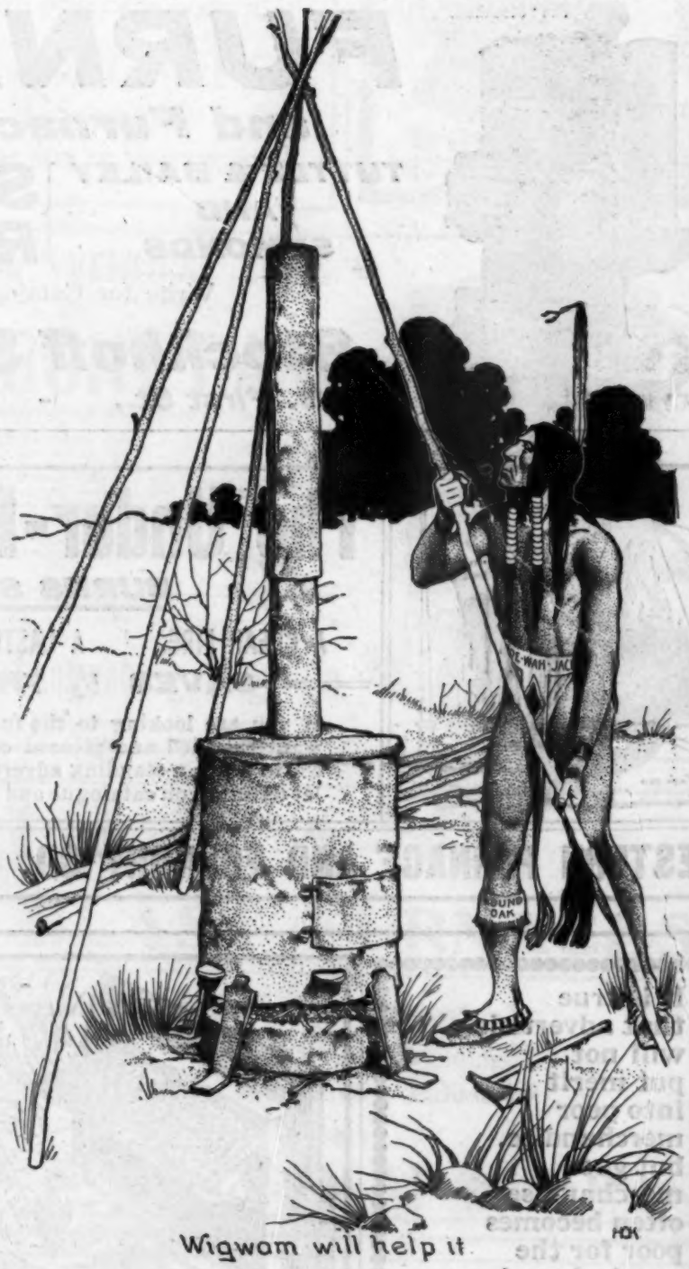
ESTATE OF

**P. D. BECKWITH**

FRED E. LEE, Manager

**Dowagiac Mich.**

MAKERS OF GOOD GOODS ONLY



ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES, THEIR POSSESSIONS, AND CANADA, (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00.
IN FOREIGN COUNTRIES EXCEPT CANADA, ONE YEAR, POSTAGE PAID, $4.00.
Address all Letters, communications and remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,
69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.
THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION.

CHICAGO, JUNE 4, 1904.

COTTON and its products will bring more than 400 million dollars into the United States from other parts of the world in the fiscal year which ends with next month.

A NORTHWESTERN merchant has found the scheme of giving clean money for change quite profitable. While it makes him considerable trouble, every customer is certain to secure bright clean coin and bills when they trade at his counters.

THE Post Office has taken steps to rule objectionable advertising from the public prints, and to declare publications containing this sort of matter unmailable. This will bar all obscene and indecent advertisements and will place the general journal on the same high moral plane which has characterized the trade journal.

A MERCHANT located in New York state recently tried the following unique advertising scheme with marked success. He placed twelve pigeons in a cage and put a notice on a placard over the cage stating that on a certain day he would free the pigeons, and on the leg of each a tag would be attached redeemable for a dollar's worth of goods at the store if presented ten days from the time the pigons were liberated by a child who had previously registered at the store as an intending participant in the contest. On the day the birds were liberated, each child was presented with a badge, which naturally aroused the curiosity of people to ask questions concerning same.

COMMERCE between the United States and its noncontiguous territory shows a slight increase in the present year as compared with last year. For the full fiscal year it seems likely to aggregate a hundred million dollars. For the nine months ending with March, 1904, the total of merchandise is $66,781,218, and of domestic gold received from Alaska, $5,806,501, making the total $72,587,719. The total of merchandise, $66,781,218, exceeds by about $2,000,000 that for the corresponding period of last year, in which the total was $64,843,085. Of this grand total of commerce with the noncontiguous territory of the United States, shipments thereto aggregate $25,806,621 and shipments from those territories to the United States aggregate $40,974,547.

THE retail trade of any state are always more or less injured in the long run by a state law compelling foreign concerns to pay a corporation tax for the privilege of doing business. Of course an individual or firm whose place of business is outside of a state can sell goods in the state and can sue for the payment of same, but a corporation which does not comply with the law has no standing with the courts. The catalogue houses need pay no attention to laws of this character, as they sell for cash only and get the money before the goods are shipped, but firms in the trade who accommodate their customers by extending credit must either comply with these laws and pay a fee or run the risk of losing the amount of their sales.

IT IS quite apparent that the United States is to head the list of nations as an exporter of domestic products in the fiscal year which ends with the coming month. The contest for supremacy as an exporter of domestic products has been for several years between the United Kingdom and the United States. Until a comparatively recent date the United Kingdom stood at the head of the list. During the past few years, however, the United States has on several occasions exceeded slightly the figures of the United Kingdom, and the latest statements of exports make it evident that in the fiscal year 1904 the United States will be considerably in the lead. The figures of domestic exports of the United Kingdom for the nine months ending with March, 1904, were $1,073,538,366, and of the United States, $1,149,330,670, the total domestic exportation of the United States for the nine months in question being thus 76 million dollars in excess of that of the United Kingdom.

JOSEPH WHARTON, president of the American Iron & Steel Association, believes that the outlook for the iron and steel trades decidedly favors a year of prosperity. He says: "The panicky conditions which pervaded the iron and steel trade last November and December have disappeared entirely, and the improvement in demand and increase in consumption thus far this year have been wonderful. However, I do not look for higher prices this year than are now ruling. Consumption of iron and steel is tremendous at present, and while I do not anticipate that production this year will be as great as last year's, I do not look for a very great falling off. The country generally is in a very strong condition financially. There is plenty of money, the West and South being in better condition than ever before. There is no sound reason for the feeling of pessimism shown in some parts of the country to-day, and after the election I anticipate a great improvement in the iron trade. Next year is going

to be a profitable one to iron and steel manufacturers, as much of the work that is now held up on account of the uncertainties of a presidential year and the general conservatism will then be carried through."

EXPORTS of manufactures in the fiscal year which ends with next month seem likely to exceed those of any preceding year. Ten months' figures just presented by the Department of Commerce and Labor through its Bureau of Statistics exceed those for the corresponding period of any preceding year. The fiscal year 1900 was the banner year in exports of manufactures, but the figures of ten months' exports of manufactures in the fiscal year 1904 exceed by nineteen million dollars those for the corresponding months of the fiscal year 1900. The total value of manufactures exported in the ten months ending with April, 1904, was $371,712,301, against $352,671,206 in the same period of the fiscal year 1900, which, as already indicated, made the highest record of manufactures exported prior to the fiscal year 1904.

COMMERCE between the United States and Cuba is already showing a material increase under the operations of the new reciprocity treaty. That instrument went into force on December 27, 1903, and therefore all the commercial transactions between the two countries since January 1, 1904, reflect the influence of the treaty and furnish a measure of its effectiveness. Statistics compiled by the Department of Commerce and Labor, through its Bureau of Statistics, and covering the months of January, February, and March, 1904, compared with figures of previous periods, show the results of Cuban reciprocity thus far.

The increase of trade between the United States and Cuba during the first three months of the present calendar year, as compared with the corresponding three months of 1903, is apparent both in our imports from Cuba and in our exports to Cuba.

DOMESTIC trade movements for the first quarter of the current year, as reported to the Department of Commerce and Labor through its Bureau of Statistics, make favorable comparison with preceding years on the subject of live-stock receipts at western markets and lumber movements in the South and on the Pacific coast. In all branches of trade dependent on river and lake navigation there was a much lighter movement than in 1903, owing to the later opening of the season of navigation.

Live-stock receipts at five markets, to the end of March, amounted to 8,844,713 head, compared with 7,603,901 head in 1903 and 8,031,008 head in 1902. The strength of the feeder movement, including those shipped and driven to the country, at Kansas City, and St. Joseph combined, was materially greater than in either 1902 or 1903. Among special movements the sheep trade at Omaha has made exceptional progress in contrast with former seasons. Shipments of horses at St. Louis reflect the extraordinary increase of demand, attributed mainly to the expansion of farming area which naturally results from continued high prices of such products as grain and cotton.

## RANDOM SKETCHES.

BY SIDNEY ARNOLD.

JABEZ BOSWOGGLE, after a day's haying under a scorching afternoon's sun, drives into Poseyville for purchasing necessary supplies and falls to contrasting the easy lot of John Loder, the hardware dealer, with his. "What a snap he has," grumbles Jabez. Nothing to do but wear good clothes, tie up packages and take in the money. And even at that he has a clerk and a tinner who do all the work. Then, too, the store drummers are so affable to him and tell him funny stories. I could run his store a good deal better than he does, as all the people in the west end of the township would trade with me.

"There's Bill Pitkin, too. He used to be a tinner and now he is making money hand over fist with his hardware store, and I used to spell him down at school all the time, too."

The discontent of Jabez becomes chronic—then both chronic and acute. He sells his farm and Poseyville has a third and unnecessary hardware store.

Jabez is a shining mark for the drummer and is loaded up with a very extensive and not unusually desirable stock. Jobbers from Chicago, St. Louis, Piedmont Junction and Pickerel River all get a slice of his business.

Strange to say he does not get all the business or any large share of it either. John Loder and Bill Pitkin both hold their trade and so Jabez conceives a wonderful idea of drawing trade, and goes after prices with an axe without consulting his competitors.

Then his neighbors, the other hardware men in Poseyville, talked it over with and by themselves, and they each concluded to do the same thing. The result was that nails, lemon squeezers, tinware, etc., were selling in that town at a closer price than you could buy them from a hardware jobber for spot cash, and they do tell me that's mighty cheap these days.

Well, the result was that the whole township began to roast the old-time hardware men. "A lot of robbers," they called them. "Been charging us four prices for our hardware for ten years and now when they have got a decent, nice competitor, that's honest, they come down to where prices ought to be. We'll do our business with Farmer Boswoggle." And so they did, and hardware men of that town looked sick for a while.

One morning there was a new face over at Boswoggle's hardware store and Boswoggle himself was not to be found. On the front door there was a card that said: "Boswoggle & Co. have sold this stock of hardware to the undersigned." The undersigned was a man who ran a coal and lumber yard.

Three or four days after that a couple of strangers dropped into town and asked around for Mr. Boswoggle." They really seemed to want him, and when somebody told them that he had sold out his store and could not be found, they looked as if their poorest friend had died and made both of them guardians for his nine children. It turned out they

were connected with the hardware jobbers who had overlooked this farmer taking a goodly portion of their bills on credit.

Well, this is a pretty hard story of itself, but it is not all of the story. The wholesale people lost all their money because the coal and lumber man had a bill of sale for the stock. The toughest part of the matter was, however, that the fool hardware men, Loder and Pitkins, of that town had got so in the habit of selling goods at cost while Boswoggle was in the field that they did not know how to get back again to decent, respectable profits.

Boswoggle has left town and has bought a smaller farm with what he saved out of the wreck. Loder and Pitkin are trying to get prices back on the basis they were before his meteoric career in the field. The credit men of three hardware jobbing houses are feeling more or less uneasy. The lumber man is selling hardware at seductive prices as a bait to sell lumber. A number of local deadbeats secured all kinds of hardware for nothing at all. Many respectable Poseyvillians stocked up on hardware at prices they will never get again.

Analysis shows that all branches of the trade suffer —the outsiders benefit. What is the remedy? Well a bulk law forcing retailers to give 5 or 10 days' notice to their creditors would do something. It would prevent smooth rascals like the lumber man from hypnotizing weaker vessels into despoiling their creditors, and in the present case in making this hardware stock a cankering sore in Poseyville trade circles for many a moon after Boswoggle had left the scene.

An understanding between Loder and Pitkin would have enabled them to save more fat from the fire than they did. Suppose they had been working in unison, could they not have made representations to the jobbers that would have brought matters to a crisis sooner?

In the first place were not the jobbers remiss in overloading a green man? Boswoggles, fresh from the ploughed meadows, are not good business risks—how, then, is it that they so often can get all the goods they want at one-third down, the balance 90 days?

* * *

EVIDENTLY the Romans hailing from Rome, Ga., had some doubt as to the ability of the jobbers at that center to stand the business and pleasure of the late convention of the Southern Hardware Jobbers' Association at Atlanta, as the Rome, Ga., Herald of May 25th bore the headline in large letters, "ROME HARDWARE MEN WILL RETURN."

* * *

I CLIP the following item from the Wichita, Kans., Eagle of May 25th: "Another hardware store is circling about Wakita. It's a great thing for Wakita; for it won't be long now till competition will enable the consumers there to get their egg beaters and carpet tacks at cost."

Yes, I know that the reporter on the Wichita Eagle and some other people, too, have an idea that hardware stores should slash all the profit out of goods in a senseless competition to benefit an indiscriminating and ungrateful public. It is just this idea that hardware associations, particularly local hardware associations, are formed to combat, and the writer hopes that the hardware dealers of Wakita, Kans., will get together and that the day may never come when the hardware buying public of that community will be able to make good the prophesy of the Wichita reporter and "get their egg beaters and carpet tacks at cost."

* * *

RUSSELL SAGE is the author of an article in the June Independent in which he inveighs against the vacation habit. He says:

"Let us assume that an employer and his clerk make an agreement to exchange just remuneration for reasonable services, and each one keeps his part of the agreement. Are they not then quits? If there is any obligation, I think it is on the part of the clerk, who avails of the credit, skill and organization of the employer to learn a business and advance himself along a path which has already been prepared for him.

"I think the 'vacation habit' is the outgrowth of abnormal or distorted business methods. I fail to see anything legitimate in it.

"What right has he then, to demand or expect pay for two weeks' time for which he renders no equivalent, not considering the serious inconvenience to which he often puts his employer?"

All of which only goes to show the sordid character of the author of this screed.

* * *

The Knoxville, Tenn., Sentinel of May 28th says: "Knoxville gets the secretary-treasurership of the Southern Hardware Jobbers' Association that recently held its annual meeting at Atlanta, in the person of C. B. Carter, and Wiley L. Morgan, of this city, is a member of the executive committee of the state association of B. P. O. Elks that adjourned its annual convention at Chattanooga Friday. Verily the outside world cannot get along without Knoxvillians to lend their assistance to many important improvements." All the world loves a paper that "roots" for its local people. I have not the honor of knowing Wiley Morgan, but C. B. Carter is a Knoxvillian who has toiled like a beaver in behalf of the hardware trade.

* * *

IS THERE money in the retail stove business? Oh! sometimes there's a little, as is shown by the following bill rendered by a Chicago stove dealer for services performed on May 28th, 1904:

CONNECTING AND SETTING UP KITCHEN RANGE.

| | |
|---|---|
| 6½ hours, man, at 65c | $ 4.23 |
| 6½ hours, helper, at 35c | 2.18 |
| 1½ ft. 6 in. pipe, at 15c | .25 |
| 2 6 in elbows, at 15c | .30 |
| 1 damper | .15 |
| 6 lbs. asbestos cement, at 10c | .60 |
| 8½ ft. ¾ in. pipe, at 10c | .85 |
| 2 ¾ unions, at 25c | .50 |
| 3 ¾ elbows at 10c | .30 |
| 1 ¾x1 in. bushing | .10 |
| 1 ¾ in. coupling | .10 |
| 1 brick lining | 1.25 |
| 1 brick clamp | .75 |
| 1 cross piece | .95 |
| 2 covers | 1.20 |
| Total | $13.71 |

# News Siftings

The U. S. Furnace & Foundry Co. are a new Kensington, Pa., concern, who will manufacture hot air furnaces.

Gohmann Bros. & Kahler Co., New Albany, Ind., stove manufacturers, have increased their capital stock from $10,000 to $25,000.

Wm. F. Jones, Jas. J. Harold and Allen S. Lozier are the incorporators of the Cyclopean Iron Works, Jersey City, N. J., capitalized at $100,000.

The Eriez Stove & Mfg. Co., Erie, Pa., will shortly start their plant for the manufacture of gas heaters, ranges, water heaters, and gas appliances.

Herbert V. Hunt and Wells N. Partridge are the incorporators of the Partridge Gas Heater Co., Salem, Mass., incorporated with a capital stock of $100,000.

G. E. Prosser, J. G. Raynolds, W. S. Weston, A. T. Prosser and W. D. Weston are the incorporators of the Ohio Stove Co., Marysville, O., capitalized at $5,000.

The Selma Stove Co., Selma, Ala., have formally dissolved and stock subscriptions have been paid back to the stockholders. The industry was capitalized at $20,000.

J. A. Lang, Sugar Creek, O., advises us that he expects to put in a line of stoves and tinware and would be pleased to receive catalogues and prices from manufacturers.

Peter J. Igoe, Thos. A. Igoe and John R. Cooney are the incorporators of Igoe Bros., Newark, N. J., capitalized at $65,000 for the manufacture of iron, and steel products.

Jerome I. Wood, P. M. Addis and Edward L. Bodin are the incorporators of the Seamless Rolled Steel Pipe Co., Philadelphia, Pa., capitalized at $2,000,000 for the manufacture of rolled steel pipe.

To-day is the day when the members of the Stove Salesmen's Association of Pennsylvania hie them to the Beidaman Club House, Pavonia, N. J., and at 2:30 p. m. sit in serried ranks and assail the planked shad.

The Home Stove Works, Indianapolis, Ind., are flourishing like a green bay tree. They are erecting a ne wbrick building, 400 feet long, 82 feet wide and three stories high. This building will be adapted for finishing rooms, nickel plating and japanning.

The Weller Pattern Co., Quincy, Ill., furnish designs and estimates for all kinds of patterns, making a specialty of stoves, heater and furnace patterns. They are sending their friends in the trade a handsome black hardwood rule with gilt scale and lettering.

The Detroit Foundry Supply Co., a new Detroit, Mich., concern embarked in the foundry supply and fire brick business on June 1 last. E. J. Woodison, and L. A. Crandall, who are both experienced foundry supply men are interested in the new company.

Chas. W. Goodnough, manager of the Pittsburgh office of the Prizer-Painter Stove & Heater Co., 700-702 Second avenue, that city, sends us a large circular calling attention to the Prizer Grand range. This range has improved sheet flue, rolling damper, special check damper at base of smoke collar, four-piece top, cut center, supported by heavy post, extra heavy lids in centers, ring cover, ventilated oven, aluminum lined oven door, protected top oven plate and smoke collar interchangeable from top to rear.

John Kontny, 65-67 North Desplaines St., Chicago, is western agent for the Red Cross Victor steel range, manufactured by the Co-Operative Foundry Co., Rochester, N. Y. This range is built of the finest obtainable planished steel, with double plates interlined with asbestos. It has a plunge damper in the top, and combination wheel register and damper in the pipe. The linings are of brick or iron as may be desired when hard or soft coal is used. The grates are duplex or Dockash, as may be preferred, and draw out in front instead of longitudinally, under exclusive patents. The cast broiling door is of ample dimensions. The oven door has a thermometrical indicator. The ash pan is very large and deep. The extreme bottom, or cast iron base section, is an exceptionally desirable feature. Through being loose and detached from the range until set up in the kitchen, a convenient dimension is secured which permits its passage through comparatively narrow doors. The reservoir casings are of cast iron and rust proof.

## MONITOR GOODS.

The Wm. Resor & Co., Cincinnati, Ohio, have materially improved their line for 1904. They have brought out a new Monitor Oak that is a thing of beauty. Its nickeling is elaborate, including top, pilasters, skirt, foot rails, check and hot blast dampers. The fire-pot is corrugated. The Monitor steel range has new name plate, feed door, ash pit door, duplex grate and tea pot shelf. The check draft damper is of the screw register type, body is planished, and there is a new planished finish on the oven door.

The Monitor gas ranges, with "Bake-Even" ovens, have removable burners, viz., three single burners, one double ring burner, one simmering burner, top burner sawed or drilled, and two drilled oven burners with independent cocks.

In the Monitor, the burners are extended across the entire width of the range, with lateral branches at the ends. The gas flame is subdivided into over two hundred small jets, the central ones burning downward and those on the branches burning up the side flues. In this manner heat is quickly supplied for the top of the oven. Every heat unit is utilized, and the oven is heated quickly and uniformly.

The front, top-plate, sub-top, doors and base of the bodies are made of cast iron. The sides and back of the bodies are planished steel, asbestos lined. The range has a very substantial base, resting solidly on the floor.

The nickel trimmings include handsome nickel top band, nickel panels for broiler and oven doors, nickel pipes, and the nickel lever cocks, made of brass, which always show whether the gas is turned on or off.

The boiler is heavy tinned wire with roasting pan. The water heater is made of either brass or iron.

A catalogue describing these gas ranges will be forwarded the trade on application. When writing for

same kindly add: "Saw it in THE AMERICAN ARTISAN."

## CLERMONT AIR TIGHT HOT BLAST FIRE BOWL.

The Gem City Stove Co., Dayton, O., have embodied many attractive features in the Clermont Air-Tight Hot Blast, including the fire bowl shown in the

Clermont Air Tight Hot Blast Fire Bowl.

accompanying cut. This fire bowl, with hot blast ring, is molded in one piece.

Narrow perpendicular slots are cast in the anti-buckling ring, the advantage of which will be quickly understood when the impossibility of determining just how much coal will be put into the fire bowl is considered. It makes no difference whether much or little coal is added, as the hot air is always being admitted evenly on all sides on a direct line to the fire and immediately over the fuel.

## RADIANT HOME STOVES RANGES AND FURNACES.

The Germer Stove Co., Erie, Pa., with western branch at 231-247 Newberry Ave., Chicago., send us their catalogue showing their line of Radiant Home stoves, ranges and furnaces. The Radiant Home steel range has a hammered, polished body and four styles of lining. It has double walls lined with asbestos, is hand riveted every two inches, has pocket cement joints, large sheet flues and cast back flue.

It has double flue bottom, preventing chilling of oven; cemented oven top; heavy single oven bottom, thoroughly riveted and braced to prevent buckling; ventilated oven; Radiant Home screw draft in ash pit door; Radiant Home direct draft damper, which, when open, heats entire top of range, and one sectional ring gridle. It has double-latched spring oven door, with malleable iron hinges; improved drop hinge fire door; new left end draft door, and large broiler and pouch feed door. It has an all cast removable reservoir attachment, fitting all sizes; moisture pocket in bottom of cast iron reservoir encasement; Radiant Home reservoir damper; large enameled or copper reservoir, and japanned reservoir covers. The removable duplex grates, when reversed, form a perfect wood grate. Grates can be removed without disturbing water front or linings. All grates and linings fit all sizes.

The nickel-plated parts include top band extending around end shelf of reservoir, oven door frame, handle and panel, fire door panel and handle, ash door, hinge housings, oven door catch, corner brackets on back strip, reservoir panel, screw draft, clean-out panel, towel rod, shaker, lifter, knobs and bolts.

The Radiant Home cast range has large top cut in four sections, interlocking long center, heavy lined short centers, patented air blast linings, extra heavy fire box linings, brick or cast iron, extension fire box for wood, extra large wood door, extra large bracket end shelf, reservoir mounted with rods, large white enameled reservoir, tin-lined oven doors, large bailed ash pan, oven door kicker and water fronts.

The nickel-plated parts are oscillating outside oven shelf, steel front top band, steel high shelf band, tea shelves, front door panel, oven door panel, fire door panel, reservoir panel, closet panels, towel rod and knobs and pins.

The Radiant Home base burner has pocket joints, preventing cement from falling out and making an absolutely air-tight joint, which will not open. The open top magazine, in combination with a gas flue, not found in any other base burner, prevents all explosion or escape of gas, it is claimed. The circular bottom flue, carrying the heat around the outside of the bottom, thus increasing the radiation. The large hot air flue, taking the cold air from the floor, or if preferred from the outside, through the center of the bottom and upward between the draft flues, in this way coming in contact with the hottest part of the stove.

The nickel-plated parts include handsome gold-plated urn, swing cover, top, corners, nickel and tile front, Germer Stove Co. plate, name plate, ash door panel, rails and brackets, legs and skirts, and knobs and hinge pins.

One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

## MEETING AMERICAN FOUNDRYMEN'S ASSOCIATION.

The American Foundrymen's Association will meet at Indianapolis, June 7th, 8th and 9th next, and a number of interesting matters will be discussed, including the pig iron warrant system, molding machines, labor saving suggestions, moisture in molding sand, by-products of foundry coke, cupola fan practice, systems for making beds, the core bench, foundry apprentices, pattern making in its relation to foundry cost, scrap iron, effect of manganese on cast iron, pig iron in its constituent elements, payment of labor and piece price systems.

## PACIFIC COAST HARDWARE AND METAL ASSOCIATION WILL MEET.

The Pacific Coast Hardware & Metal Association will hold their annual meeting at Santa Barbara, Cal., on July 6, 7, 8th, making their headquarters at the Hotel Potter.

# The Hardware Record.

**American Hardware Mnfs. Assn.**
Pres., J. C. Birge, St. Louis, Mo.
Vice-Pres., F. S. Kretsinger, Ft. Madison, Ia; Harry B. Lupton, Pittsburgh, Pa.; Geo. W. Corbin, New Britain, Conn.
Secy.-Treas., F. D. Mitchell, Phila.
Ex. Com., C. W. Asbury, Philadelphia, Pa.; Chairman; Robert Garland, Pittsburgh, Pa.; N. A. Gladding, Indianapolis, Ind.; Geo. P. Hart, New Britain, Conn.; Wm. M. Pratt, Greenfield, Mass., W. S. McKinney, Allegheny, Pa.; E. G. Buckwell, Cleveland, Ohio; E. B. Pike, Pike Station, N. H.

**Arkansas Retail Hdw. Dealers' Assn**
Pres., J. F. Maxey, Ozark.
1st V.-P., H. Williams, Hot Springs.
2d V.-P., A. L. Skillern, Nashville.
S.-T., C. E. Taylor, Little Rock.
Ex. Com., C. T. Rosenthal, Batesville; T. B. Stewart, Newport; E. E. Mitchell, Morrillton; W. M. Graham, Clarendon; R. F. Roys, Russellville.

**Chicago Retail Hdw. Dealers' Assn.**
Pres., H. E. Gnadt.
V.-P., G. A. Neeb.
Sec., G. R. Lott.
Collector, John Hora.
Treas. J. L. Smith.

**Hardware Merchants' and Manufacturers' Assn. of Philadelphia.**
Pres., Thomas Devlin.
V.-P., John R. Griffith.
S.-Treas., T. James Fernley.
Directors, W. W. Supplee, John R. Griffith, E. S. Jackson, W. C. Peters, S. Disston, E. Fisher, J. H. Ritter, T. Devlin, T. J. Fernley.

**Indiana Retail Hdw. Dealers' Assn.**
Pres., E. M. Bush, Evansville.
1st. V.-P., A. Shidler, So. Bend.
2d V.-P., T. J. Lindley, Jeffersonv'l
Sec.-Treas., M. L. Corey, Argos.
Members Ex. Com., W. P. Lewis, New Albany; Chas. E. Hall, Indianapolis; J. L. Fulton, Portland.

**Illinois Retail Hdw. Dealers' Assn.**
Pres., Charles H. Williams, Streator.
V.-P., W. T. Gormley, Chicago.
Sec., L. Nish, Elgin.
Treas., Geo. A. Englehardt, Chicago.
Ex. Com., Charles H. Williams, Streator; W. T. Gormley, Chicago, L. Nish, Elgin; Geo. A. Engelhardt, Chicago; Frank McKinney, Rockford; Chas. Johnson, Peoria; L. D. Ray, Belvidere; F. F. Porter, Chicago; Wm. Bittel, Peoria; H. G. Cormick, Centralia.

**Indian Territory Retail Hdw. Assn.**
Pres., A. L. Severance, Durant.
1st V.-P., Geo. W. Mowbray, Tulsa
2nd V.-P., W. J. Pettee, Oklahoma City.
Secy., W. G. Johnston, Oklahoma City.

**Iowa Retail Hdw. Dealers' Assn.**
Pres., S. R. Miles, Mason City.
V.-P., H. S. Vincent, Ft. Dodge.
Treas., A. C. Vieth, Oakland.
Members Ex. Com., T. A. Nichols, Burlington; D. A. Stauffer, Iowa City; W. B. Baumgardner, Dubuque; U. S. Johnson, Tama; F. W. Ritter, Hedrick; Thomas Gadd, Des Moines; F. F. Botlinger, Afton; Chas. Swaine, Council Bluffs; Wm. H. Millard, Cherokee.

**Kansas Hardware Dealers' Assn.**
Pres., Oscar Roehr, Topeka.
V.-P., E. J. King, Logan.
Sec.-Treas., J. A. Cole, Topeka.
Ex. Com., F. W. Bartlett, Kansas City; T. H. Kiniry, Beloit; J. M. Walters, Robinson; J. H. Hamilton, Arkansas City; T. J. O'Neill, Osage City.

**Kentucky Retail Hardware and Stove Dealers' Association.**
Pres., J. C. Frederick, Owenboro.
1st V.-P., J. C. Mahon, Lawrenceburg.
Sec., John R. Sower, Frankfort.
Treas., J. Steitler, Owensboro.

**Michigan Hardware Association.**
Pres., John Popp, Saginaw.
V.-Pres., F. M. Brockett, Battle Creek.
Treas., Henry C. Weber, Detroit.
Sec., A. J. Scott, Marine City.
Ex-Com., W. P. Culver, Portland; K. S. Judson, Grand Rapids; J. H. Whitney, Merrill; E. J. Morgan, Cadillac; T. Frank Ireland, Belding; Fred S. Cook, Fowlerville; C. E. Pipp, Otsego; A. Harshaw, Delray; A. J. Scott, Marine City.

**Minnesota Retail Hardware Assn.**
Pres., A. T. Stebbins, Rochester.
V.-P., George Evenson, St. Peter.
Sec., M. S. Matthews, Minneapolis.
Treas., Geo. F. Duerre, Plain View.
Ex-Com., W. H. Tomlinson, Le Sueur; J. H. Smith, Minneapolis; H. R. Schroeder, St. Paul; J. A. Roehl, Owatonna; W. T. Cowing, Alexandria; C. H. Casey, Jordan; Louis Gewalt, Breckenridge; Chas. F. Ladner, St. Cloud; J. F. McGuire, St. Paul; A. T. Stebbins, Rochester; Geo. M. Evanson, St. Peter.

**Missouri Retail Stove and Hardware Dealers' Association.**
Pres., Tayler Frier, Louisiana.
V.-P., E. L. Wachter, St. Louis.
Sec., F. N. Neudorff, St. Joseph.
Ex. Com., J. W. Poland, Carrollton; F. N. Kannsteiner, St. Louis; W. T. Shoop, Richmond.

**National Hardware Association.**
Pres., S. A. Bigelow, Boston.
1st V.-P., John C. Koch, Milwaukee.
2nd V.-P., Bruce Hayden, San Francisco.
Ex. Com., F. Barker, Elmira, N. Y.; J. D. Moore, Birmingham, Ala.; John Freeman, Detroit; P. E. Strouss, Boston; R. M. Dudley, Nashville; W. S. Wright, Omaha.
Advisory Board, W. W. Supplee, Philadelphia; H. H. Bishop, Cleveland; John Bindley, Pittsburg; R. A. Kirk, St. Paul.

**Nebraska Retail Hdw. Dealers' Asn.**
Pres. J. C. Cornell, Ord.
Vice-Pres., F. D. Kees, Beatrice.
2d V.-P., Max Uhlig, Holdrege.
Sec.-Treas., H. J. Hall, Lincoln.

**National Retail Hdw. Dealers' Asn.**
Pres. W. P. Bogardus, Mt. Vernon, O.
V.-P., W. H. Tomlinson, LeSuer, Minn.
2d V.-P., F. C. Moys, Boulder, Col.
Sec., M. L. Corey, Argos, Ind.
Treas., A. T. Stebbins, Rochester, Minn.
Ex. Com., T. Frank Ireland, Belding, Mich.; James N. Kline, Williamsport, Pa.; Frank F. Porter, Chicago; S. E. Jones, Richmond, Ind.; A. H. Abbe, New Britain, Conn.

**N. Dakota Retail Hdw. Dealers' Asn.**
Pres., H. F. Emery, Fargo.
1st V.-P., G. W. Wolbert, Bismarck.
2d V.-P., A. C. McNiven, Langdon.
3d V.-P., J. B. Boyd, Rugby.
Sec., C. N. Barnes, Gand Forks.
Treas., H. T. Helgesen, Milton.
Ex. Com., E. E. Elliott, Sanborn; H. F. Strehlow, Casselton; Hurbert Harrington, Fargo.

**Ohio Hardware Association.**
Pres., John F. Baker, Dayton.
V.-P., C. S. Johnson, Barberton.
Cor. Sec., Frank A. Bare, Mansfield.
Fin. Sec., W. C. Jones, Columbus.
Treas., L. F. Stahler, Waverly.
Ex. Com., John C. Fuhr, Williamsburg; John Kramer, Dayton, C. W. Jewell, Utica; W. A Perry, Zanesville; Frank W. Ingalls, Byran.

**Pennsylvania Retail Hdw. Assn.**
Pres., Geo. L. Moore Brownsville.
V.-P., Geo. J. Rudolph, Pittsburg.
Sec., J. E. Digby, McKees Rocks.
Treas., B. A. Maggine, Braddock.
Ex. Com., E. E. Lyon, Greensburg; C. N. Savage, California; B. A. Maggine, Braddock; C. O. Shroyer, Dawson.

**St. Louis Stove Dealers' Assn.**
Pres., R. H. Myers.
1st V.-P., E. L. Wachter.
2d V.-P., G. M. Rinie.
Sec., Louis Boehl.
Treas., F. A. Kannsteiner.

**Southern Hardware Jobbers' Assn.**
Pres., W. M. Crumley, Atlanta, Ga.
1st V.-P., John Donnan, Richmond, Va.
2d V.-P., E. A. Peden, Houston, Texas.
Ex. Com., Bruce Keener, Knoxville, Tenn.; Chas. Ireland, Greensboro, N. C.; O. B. Barker, Lynchburg, Va.

**Texas Retail Hdw. and Imp. Assn.**
Pres., S. L. Erwin, Honey Grove.
1st V.-P., W. M. Gunnell, Marlin.
2d V.-P., J. D. Carroll, Quanah.
Sec. & Treas., J. W. McManus, Waxahachie.

**Wisconsin Hdw. Dealers' Assn.**
Pres., H. L. McNamara, Janesville.
V.-P., Ralph Burtis, Oshkosh.
Sec.-Treas., C. A., Peck, Berlin.
Ex. Com., W. H. Busse, Milwaukee; E. R. Ramm, New London; H. S. Scofield, Sturgeon Bay; R. Murdoch, Beloit.

**THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 40 to 44 inclusive.**

W. D. Lichty has retired from the hardware firm of Lichty & Thomas, Iowa City, Ia.

Crary Bros. & Co., Madrid, Ia., hardware dealers, have closed their establishment at that point.

The McDonald Hardware Co., 104 S. Fourth St., St. Joseph, Mo., assigned on May 27th last.

J. M. C. Myers, proprietor of the Dayton File Works, Dayton, O., died in that city recently.

The Coffin-Clinton Hardware Co., Boise, Idaho, have purchased the plumbing business of Lowrie & Lusk.

W. H. French, Danville, Ill., hardware dealer, has filed a petition in bankruptcy with assets of $3,150 and liabilities of $11,233.

Hempstead C. Shaw, Carpus N. Shaw and Wm. B. Harrah are the incorporators of the Shaw Hardware Co., Worthington, Ia., capitalized at $10,000.

Howell & Sons, Woodhull, Ill., hardware dealers, were victims of burglars on May 26 last, their loss amounting to 4 revolvers, 200 pocket knives and 24 razors.

W. M. McMechen, R. M. Trimble and Geo. P. Foote are the incorporators of the Crown Pulley Cover Co., New York, capitalized at $100,000, for the manufacture of pulleys.

J. W. Gonce, John L. Gonce, F. L. Gonce, Dora Gonce and C. E. Taylor are the incorporators of the Gonce Lock & Mfg. Co., Chattanooga, Tenn., capitalized at $10,000.

T. C. McPherson, G. W. Miller and J. A. Miller are the incorporators of the Keystone Wire Matting Co., Beaver Falls, Pa., capitalized at $25,000, to manufacture wire door mats.

Geo. H. Ellithorpe, Geo. Kihlken, Henry Schroeck, Chas. P. DeWitt and Geo. A. True are the incorporators of the Ohio Pump Co., Fort Clinton, O., capitalized at $10,000.

James H. Collins, for a number of years with the hardware firm of Moore & Collins, Nashville, Tenn., died at his residence in that city on May 26th, in the 67th year of his age.

M. J. Pelton, J. D. Pelton, S. F. Cheyel, W. P. Trinter and F. S. Chamberlain are the incorporators of the Buckeye Brass & Iron Co., Cleveland, Ohio, capitalized at $10,000.

Mrs. Mariah A. Kimple has been appointed receiver of Bond & Powell, Peru, Ind., hardware dealers. She is said to be the first woman ever appointed as a receiver in Indiana.

C. C. Townsend, R. R. Legare, C. M. Griffin are the incorporators of the Commercial Co., Beaufort, S. C., capitalized at $10,000 for the manufacture of plates, woodenware, etc.

John Weekes, Mary Weekes, John M. Weekes, J. Sterling Still and G. R. Schriver are the incorporators of the Jno. Walker & Son Co., Watertown, N. Y.,

incorporated with a capital stock of $50,000 for doing a hardware business.

H. B. Maxwell, L. M. Fitch and Christinia S. Fitch are the incorporators of the Maxwell & Fitch Co., Rome, N. Y., capitalized at $12,000 for the manufacture of gasolene engines.

Geo. A. Duck, Richard H. Kehve and Arthur W. Smith are the incorporators of the Thomaston Mfg. Co., Thomaston, N. Y., capitalized at $3,000 for dealing in self-wringing mops.

Geo. Maitland, Henry C. Hart, Chas. F. Burton and E. J. Stoddard are the incorporators of the Free Piston Gas Engine Co., Detroit, Mich., capitalized at $125,000, for the manufacture of gas engines.

Horace Comack, J. L. Witmer and W. L. Schoonover are the incorporators of the Beats All Washing Machine Co., Des Moines, Ia., capitalized at $5,000 for the manufacture and sale of washing machines.

C. N. Dack & Co., Oskaloosa, Ia., successors to the Hamilton-Messenger Co. in the hardware, stove and bicycle business advise us that the recent report that they have consolidated with M. B. Gilchrist & Co. is incorrect.

Dwight R. Burr, whose efficient handling of the secretaryship of the Ohio Hardware Association gained him many friends, who deeply regretted to learn of his temporary retirement from Ohio hardware circles, has again taken up the harness in that commonwealth, being in charge of the business of the Carlisle & Grimes Co., Cambridge, O., jobbers and retailers in hardware, mill and mine supplies.

The Hurwood Mfg. Co., Inc., Bridgeport, Conn., send us a circular calling attention to the Bishop lantern. This lantern has a patent attachment for lifting and swinging the globe out of place and doing away with any annoyance in filling, lighting or trimming. The globe may be easily removed or replaced for cleaning and other purposes. An attachment has been provided for keeping the bail in a vertical position. Another improvement provides a clear white flame and makes the lantern wind and jar proof.

We acknowledge the receipt of an invitation to attend the dedication of the Indiana Building at the Louisiana Purchase Exposition, which function was successfully performed at 2 o'clock on the afternoon of June 3d. Coupled with this invitation was one to the reception to be given by the Governor of Indiana and the Commission of that state at the Indiana building on the evening of the same day from 8 to 11 o'clock. We are indebted for this invitation to Nelson A. Gladding, a member of the Indiana Louisiana Purchase Exposition Commission, and well known to the trade from his connection with E. C. Atkins & Co., the Indianapolis, Ind., saw manufacturers.

## SEEK BETTER FREIGHT RATES.

At a recent meeting of the Eastern Montana Hardware & Implement Dealers' Association, held at Billings, that state, 33 dealers were present, and decided to make an effort to secure better freight rates from St. Paul westward. One dealer declared that shipments could be made as cheaply to Seattle as to Red Lodge, Mont., and that the average cost of shipping a carload of buggies from St. Paul to Red Lodge was $300.

## STEVENS CATALOGUE.

The J. Stevens Arms & Tool Co., Chicopee Falls, Mass., recently sent out a handsome new catalogue whose front and back covers are shown herewith.

Front Cover.

This catalogue embodies all recent notable additions to their extensive line of firearms and accessories in single and double barrel hammer and hammerless shotgun styles. It also describes and illustrates their latest rifle creation —Stevens "Little Krag" No. 65.

The cover design is in five colors, and shows a spirited hunting scene by the New York artist, A. B. Frost.

This firm are manufacturers of fine single-shot target and sporting rifles, single-barrel hammer and hammerless shot guns, double-barrel hammer and hammerless shot guns, single-shot pistols, the "Stevens-Pope" barrels and specialties, rifle telescopes and sights, and the Stevens-Duryea automobile.

Back Cover.

In discussing the Stevens rifles this catalogue says:

"The barrels of Stevens rifles have a world-wide reputation for superior accuracy. All the Stevens rifles from the cheapest to the highest grade are marvels of accuracy; so great has been the reputation of Stevens rifles and pistols in this respect that Stevens barrels are frequently employed in other mechanisms, and we felt obliged to respond to repeated requests of sportsmen, and established a department for reboring the barrels of other makes of rifles. Beginning with the best material in the barrels, the manipulation is in charge of our most skillful mechanics by the most improved methods. Every barrel produced at our works is carefully tested through the various processes. The correctness of the bore is assured before the rifling is done; the rifling is most carefully performed, and each arm when finished is tested at the target in a machine-rest by the best procurable expert; the arm is then carefully sighted. In confirmation of the superior quality of Stevens barrels we point with pride to the wonderful work done in indoor and outdoor shooting, and the unequaled scores made with Stevens barrels."

One of these handsome catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

## A COMPLETE POCKET MANICURE.

The Little River Mfg. Co., 296 Broadway, New York, are producing a unique nail cutter, cleaner and file, shown in the accompanying illustration. The clipper is made entirely of tool steel, and the edges are so arranged that they shear and pass each other as an ordinary scissors would and not by coming in direct contact with each other. The edges are continually wetted and will not become dull, it is claimed.

Fig. 1. Clipper with Cleaner Extended.

The leverage is very powerful and the article is very neat and attractive.

Fig. 2. Counter Display Stand.

Figure 1 illustrates the clipper with the cleaner extended. When not in use the cleaner slides back into the frame and does not project.

Figure 2 illustrates a counter display stand, holding one dozen clippers. These are very attractively arranged on an aluminum display disc. It is attractive either on a counter or in a show case.

## PELOUZE FAMILY SCALE.

The Pelouze Scale & Mfg. Co., 118-132 W. Jackson Boulevard, Chicago, are offering the trade the Pelouze "Family" scales shown in the accompanying cut. These scales are made of cold rolled steel, handsomely japanned and decorated in gold. They are

Pelouze Family Scale.

made with large brass or silver finished dials and have a capacity of 24 pounds by ounces or 10 kilos by 25 grams. The top plate is made of steel, beautifully enameled or of white enameled tile. A feature of these scales as now made is the beauty of their new handsome silver finished dials. The extreme height of these scales is 9 inches, width is 5½ inches and depth is 6½ inches. Their catalogue "G," showing their line of scales for 1904-1905, will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

## GUN NOTES.

### FLEMING IN FINE FORM.

L. B. Fleming of Pittsburgh, Pa., the amateur champion of the United States in 1903, is taking in the more important tournaments this year, and shooting in his usual splendid form. At the Pennsylvania State Shoot, held at York, Pa., May 16th to 21st, he won high amateur average, breaking nearly 92 per cent of his targets in the three days' open events. He used Peters Ideal shells, made by the Peters Cartridge Co., Cincinnati, O.

### COOPER IS CHAMPION.

The Pennsylvania State Championship was won at this tournament by Mr. F. W. Cooper, also shooting Peters Ideals.

### ALL CONTESTANTS USED PETERS SHELLS.

The Nebraska State Shoot, held at Columbus, Nebr., May 18th to 20th, witnessed some unusual shooting. The most interesting feature of the tournament was the 100-target event for the high grade gun presented by The Peters Cartridge Co. All of the 60 contestants used Peters shells, and the winner, Mr. C. Dixon of Joplin, Mo., had to break 96 out of 100 in order to win. Twenty-one of the 60 shooters, all amateurs, broke 90 per cent or more, many of them never having made such creditable scores. The affair developed a large number of enthusiasts on the subject of Peters ammunition.

### TRAP SHOOTING IN MICHIGAN.

Renewed interest is being taken in trap shooting sport by the members of the Iron Mountain (Michigan) Gun Club. Shoots are now held weekly and the attendance is increasing. At the regular shoot on May 7th some very creditable scores were made, and it was a noticeable fact that all those taking part used Peters shells, made by the Peters Cartridge Co., Cincinnati, O.

### FLEMING WINS AT DUBOIS.

The splendid qualities of Peters loaded shells, made by the Peters Cartridge Co., Cincinnati, O., have been demonstrated in a number of recent Pennsylvania tournaments. In addition to his fine work at the State Shoot at York, Mr. L. B. Fleming won the high amateur average at DuBois, Pa., scoring 349 out of 360.

### YOUNG MAKES STRAIGHT RUN OF 61.

The Kentucky State Tournament at Mt. Sterling, Ky., May 24th and 25th, proved to be a very successful affair and was very well attended. Some good shooting was done, the high amateur average for two days being won by Mr. C. A. Young of Springfield, Ohio, shooting Peters Ideal shells. Mr. Young also

made a straight run of 61, the longest of the tournament.

MINK A WINNER AT 19 YARDS.

At Point Breeze, Pa., on May 5th, Mr. Chas. E. Mink scored 49 out of 50 at 19 yards, this being the second winning Mr. Mink has made in the Point Breeze series on the score of 49. He always uses "Peters" shells.

## NEW CUTLERY CONCERN.

The Union Cutlery & Hardware Company are a new Unionville, Conn., concern who have recently incorporated under the laws of the State of Connecticut. They have purchased from The Upson Nut Co. their cutlery department and intend to carry on that business.

The officers are Mr. H. C. Hart, president; F. E. Taber gen, mgr., and J. J. Ramage, sec'y and treas.

Mr. Hart has been connected with this cutlery shop for the past twenty-six years and is very much pleased with the condition of affairs at the present time. He will have general oversight of the business.

Mr. Taber comes from the Spalding Mfg. Co. of Chicopee Falls., Mass., and will have full charge of the manufacturing department. He is well fitted for that work, having been a practical mechanic all his life.

Mr. Ramage is from Holyoke, Mass., and will take charge of the office end of the work.

The concern are manufacturers of nickel-plated knives, forks, nut cracks and nut picks; also tin-plated knives, forks, tea and tablespoons and child's sets, all in plain and fancy patterns. They can also figure on hardware specialties. They have valuable water privilege, about seven buildings, considerable over one acre of land and all the machinery necessary for this kind of work. At present there are about forty people employed, but this number will be increased shortly.

## WHAT'S THE MATTER WITH McMANUS?

J. W. McManus is a hardware man hailing from Waxahachie, Tex., and the Retail Hardware and Implement Dealers' Association of Texas put him in as secretary at their last meeting. Now, to tell the truth, the whole truth and nothing but the truth, the association in quesion was in rather a stagnant condition when McManus took the helm three months ago, but that gentleman made the dry bones rattle to grim purpose; as he has taken 106 new members into the fold, averaging over one a day, and has not quit working yet, for that's the kind of a man he is.

## MEETING OF MINNESOTA INSURANCE DIRECTORS.

The board of directors of the Retail Hardware Dealers' Mutual Fire Insurance Co. of Minnesota held their regular quarterly meeting at 323 Boston Block, Minneapolis, Minn., on Thursday, May 26th last.

The report of the secretary showed that the company was in a flourishing condition. Chas. F. Ladner of St. Cloud, Minn., was re-elected as president for the ensuing year. Henry Hauser of Minneapolis was re-elected as treasurer and M. S. Matthews of Minneapolis was re-elected as secretary, while Julius Schmidt of Wabasha was elected as vice-president to succeed J. F. McGuire of St. Paul.

## MUTUAL INSURANCE.

J. W. Garvey, Kansas City, Mo., manager of the Reciprocal Underwriters' Mutual Insurance Company, formed by retail lumber dealers, favors us with an interesting letter detailing some of the benefits this cognate branch of retail industry has derived from the formation of a mutual insurance company. The Reciprocal Underwriters are in a magnificent condition as their statement concerning the condition at the close of business July 31, 1903, showed $1,936,300 insurance in force and that 40 per cent of premiums collected had paid losses and expenses. We make the following excerpts from this letter:

"Nine years ago the minimum rate on a detached lumber yard in this section was $15.50 per thousand. We only charge a rate of 1 per cent on a detached yard.

"Since 1896 the insurance companies have been writing detached yards as low as 50c hoping thereby to destroy this business.

"A lumber yard which I have in mind located at Carthage, Mo., which adjoins a livery stable, part of the livery stable answers as a shed for the lumber yard, the rate charged on the livery stable by the insurance companies is 4 per cent, the rate charged on the lumber yard by the insurance companies is 1 per cent.

"The rate maker for the insurance companies advised me that the lumber yard rate was correct, that being the case the insurance companies are robbing the liveryman out of $30.00 per thousand, of the two risks, in my judgment, the livery stable is the better risk, for this reason, in case of fire the vehicles can be run out of the building, while the lumber is dead stock and cannot be moved. I write you this to show what the insurance companies will do where they have competition for the business.

"A mutual insurance company, handled by a competent man, will save for the policy holders 50 per cent of the premiums, the reason there are not more mutual companies is simply this: The old line companies make a desperate united fight on a substantial mutual company, by going to the assured and cutting the rate, thereby destroying the mutual company. And when the mutual company is out of the way, up goes the rates.

"If any of our subscribers send in a policy to this office for reduction in rate under these circumstances, the policy is immediately canceled and his account is closed out.

"We will say, for an example, the insurance companies have been charging a 2 per cent rate for years on a man's risk, and this man leaves the company and goes into a mutual company, the insurance costs about one-half of 2 per cent rate, and afterwards when the insurance companies go to that man and offer to write his risk for 80c he should have sense enough to know why they are doing so, and a man is a poor stick who will fall into a trap of this kind, and such a man does not deserve a mutual policy nor to be associated with a class of men who are interested in a good mutual company.

"The Lumberman's Exchange has saved for the lumbermen in Missouri and Kansas in the last 10 years over $600,000 by the reduction of rates and we have perhaps one-half of the lumber yards in the two states insured, the other half stays with the insurance companies and are enjoying a rate below the cost of carrying the insurance, brought about through the Lumberman's Exchange.

"The rates on all other properties in the state are swelled thereby making up the loss to the insurance companies sustained by writing lumber yards for practically nothing. In other words your house in Chicago, if you are patronizing the insurance companies, help make up this loss."

## A HARDWARE STORE FRONT AND INTERIOR.

The Churchill-Hemenway Co., 238-240 East Main St., Galesburg, Ill., carry a complete line of hardware, stoves, bicycles, furnaces, pumps, paints, oil and varnish.

As the illustration of their store front shows they are partial to the owl. This nocturnal bird also adorns

Hardware Store Front.

Hardware Store Interior.

their stationery, calendars, advertising fans, etc. This firm have greatly improved their store the past year. They have recently added 40 feet to its depth and have taken all the stoves off the first floor and have placed them in the stove room on the second floor. They have also installed an electric elevator for both freight and passenger service. They find this arrangement much better, as it gives them more room on the first floor for hardware and it also enables them to get their stove customer by himself and close a sale much easier, as there is nothing whatever to distract his attention.

They have also installed a private inter-communicating telephone system to various parts of the store, which is certainly a great convenience.

They have in the last year added nine new floor show cases, some of which show quite prominently in the accompanying cut. These show cases they have found to be a great benefit in selling goods.

## AN ENGLISH IDEA.

Herewith is an English idea of a model advertisement for a retail hardware dealer. While ingenious, the announcement does not seem to us to be as good

as though it were broken up more. Then, too, apt alliteration's artful aid, while good for an embellishing phrase, should hardly be used exclusively. Celery is a good relish, but would do poorly as the only article on the menu.

Jno. Beck has purchased the interest of J. Cheeseman in the hardware store of Cheeseman & Paine, Shannon, Ill.

P. D. Hardy and A. Hardy are the incorporators of the Southern Scale & Fixture Co., Columbia, S. C., capitalized at $10,000.

## MEETING ARKANSAS RETAIL HARDWARE DEALERS' ASSOCIATION.

The fifth annual meeting of the Arkansas Retail Hardware Dealers' Association will be held at Little Rock, June 8th, 9th and 10th, with headquarters in Gleason's Convention Hall.

WEDNESDAY MORNING SESSION, 10 A. M.

Opening of Convention, President John F. Maxey, Ozark.
Roll Call.
Enrollment of New Members.
Address of Welcome to Little Rock, Mayor W. E. Lenon.
Response for the Association, J. B. Avera, Paragould.
Report of Executive Committee.
Remarks by Manufacturers, Jobbers and Traveling Men Present.
Adjournment.

WEDNESDAY AFTERNOON SESSION, 2 P. M.

Enrollment of New Members.
President's Annual Address.
Secretary-Treasurer's Annual Report.
Appointment of Committees on Resolutions, Press, Finance, Auditing, Insurance, Nominations.
Paper—"What Can Be Done by Our Members to Create a More Active Interest in Association Work?" John M. Pittman, Prescott; E. E. Mitchell, Morrilton.
Papers—"The Best Method of Keeping a Well Established Business Up to Its Standard." Hamp Williams, Hot Springs; W. M. Graham, Clarendon.
Address—"What the National Association Is Doing for the Retail Hardware Dealer." National Secretary M. L. Corey of Argos, Ind.
New Business.
Adjournment.

THURSDAY MORNING SESSION, 9 A. M.

Papers—"Business Hints in the Hardware Line." C. T. Rosenthal, Batesville; P. J. Tidwell, Buckner.
Paper—"What Are the Best Methods of Extending Credit and Making Collections?" J. L. Davis, Magnolia.
Paper—"Best Method of Keeping Tab on Credit Sales, so as to Insure the Proper Charge." O. R. McDaniel, Prescott.
"Catalogue House Competition—Looked at From the Jobber's Standpoint." R. W. Shapleigh, St. Louis.
From the Retailer's Standpoint, National Secretary M. L. Corey.
General Discussion of the Subject.
Reports of Committees on Membership, Transportation, Grievances, Fraternal Relations, Program.
Unfinished Business.
New Business.
Adjournment.

THURSDAY AFTERNOON SESSION, 2 P. M.

Paper—"Shall Barbed Wire and Nails Be Profit Makers or Leaders With Us?" J. A. Plummer, Marianna.
Paper—"Business Leaks, and How to Stop Them." T. B. Stewart, Newport; S. F. Palmer, Mammoth Spring.
Unfinished Business.
Reports of Committees on Finance, Auditing, Insurance.
Question Box.
New Business.
Recess to 7:30 p. m.

FRIDAY MORNING SESSION, 9 A. M.

Unfinished Business.
New Business.
Question Box.
Reports of Committees on Resolutions, Press, Nominations.
Adjournment.

FRIDAY AFTERNOON SESSION, 2 P. M.

Installation of New Officers.
Announcement of Standing Committees.
General Discussion—"What Shall We Attempt to Do in the Fiscal Year Which We Are Just Entering."
Adjournment.

These questions were discussed.

1. Have the trusts injured our business?

2. Should the hardware jobber sell to the blacksmith direct?

3. How do you handle the mower and reaper business?

4. A town has three hardware merchants; two want to join in associational work, but the third man will not. What should be done?

5. Is there any good reason for patronizing the hardware insurance companies?

6. Can a man be a good buyer, if he has to buy several lines of goods, as in a general store?

7. Are freight rates on hardware in proportion to those on other lines of goods?

8. Is the demand for commercial fertilizer growing.

9. Is glass a profitable line to carry?

10. Does the seed business belong properly to the hardware man?

11. How often do you have your scales tested?

12. What is the best way to meet encroachments by jobbers on the retail trade?

13. Does every member take a trade paper? How many take two? If you don't take one, why not?

14. Is a cash register sufficiently useful to be worth its cost?

15. What is your experience in handling the cheap plow business? Can it be made more profitable? Can it be cut out aftogether?

16. As individuals and as an association, ho wcan we prevent canvassing the farmer trade for buggy sales by the representatives of some vehicle concern?

17. What percentage is correct to add to cash price on a sale made in the spring due in the fall?

18. Is it good policy to buy goods on long time and sell on long time?

19. What benefits are derived from paying cash, beside the cash discount?

20. Does any member sell exclusively for cash, or any particular line for cash?

21. How do you handle the "dead-beat" in your town?

22. If there is no law to force a railroad to deliver goods in a reasonable length of time, is it right that the railroad should be allowed to collect demurrage?

23. What is the best plan to increase the membership of this association?

24. Look at the list of hardware dealers in the state, do you detect any errors? Anyone omitted? Anyone in the list who don't belong there? Remember, we now include vehicle and implement dealers, also.

25. How much do you make by staying away from our state convention? How much do you lose by attending?

## IN A FRIENDLY SORT O' WAY.

When a man ain't got a cent, and he's feeling kind o' blue,
An' the clouds hang dark an' heavy, an' won't let the sunshine through,
It's a great thing, O, my brethren, for a feller just to lay
His hand upon your shoulder in a friendly sort o' way!

It makes a man feel curious; it makes the tear-drops start,
An' you sort o' feel a flutter in the region of the heart;
You can't look up and meet his eyes; you don't know what to say,
When his hand is on your shoulder in a friendly sort o' way.

Oh, the world's a curious compound, with its honey and its gall,
With its care an' bitter crosses; but a good world, after all,
An' a good God must have made it—leastways, that's what I say
When a hand rests on my shoulder in a friendly sort o' way.

—James Whitcomb Riley.

F. L. Berry, J. C. Hill and Jno. Peyton are incorporators of the Jewett Hardware & Lumber Co., Jewett, Tex., capitalized at $10,000.

## BUSINESS CHANGES.

NEW FIRMS.

Rochester, Minn.—Secor & Peterson.

Alden, Minn.—H. A. Ebert.

Chewelah, Wash.—The Stanley & Himmel Hardware Co.

Ada, Minn.—August Maas.

Donnelly, Minn.—E. Peck.

Ash Creek, Minn.—C. G. Bensen.

Mount Hope, Wis.—R. Jacobs.

Hollandale, Wis.—Conrad & Galway.

Hoffman, Minn.—Clarquist & Lindstrom.

Potomac, Ill.—A. B. Duncan has enlarged his hardware store.

Farmington, Minn.—The Irving Hardware & Implement Co.

Hume, Mo.—J. L. McConnell & Sons.

CHANGES.

Julesburg, Colo.—Dye Bros. are succeeded by Dye & Hurin.

Burton, Kans.—Schroeder, Enns & Co. are succeeded by the Edwards & Westmacott Lumber Co.

Cottonwood, Minn.—Vance & Christianson succeed Lars Larson.

Lucerne, Mo.—F. Sprague succeeds Snyder & Maxwell.

Carthage, Mo.—The Drake-Bahney Hardware Co. are succeeded by the Drake Hardware Co.

Lexington, Neb.—F. B. Harrington is succeeded by R. F. James.

Maynard, Minn.—Skrukrud & Vold succeed John Swift.

Brownton, Minn.—C. Buckweitz succeeds R. T. Walker.

Walworth, Wis.—Porter & Tricker succeed D. W. Porter.

Breedsburg, Wis.—Siefert Bros. are succeeded by the Siefert Hardware Co.

Weywuwega, Wis.—John Frederick succeeds Geo. Uttermark & Bro.

Irwin, Ia.—Chas. McConnell is succeeded by P. Steenhausen.

Garden Grove, Ia.—Miller & Spellersburg succeeded W. A. Curry.

Sharpsburg, Ia.—Cooper & West are succeeded by Miller & Co.

MISCELLANEOUS.

Albany, Minn.—N. J. Thiesen is building a new store.

Louisburg, Minn.—Philley & Beedle are moving into a new store.

Menominee Falls, Minn.—Fred Thomas is erecting a new hardware store.

Rake, Ia.—C. O. Lane is erecting a new building.

Winthrop, Minn.—Schweikert & Stockman; fire loss.

Ashley, Pa.—The Williams Hardware Co. have moved to 54 East Side of Public Square.

STOPPAGES.

Eldora, Iowa.—O. E. Miller & Son have assigned.

Windom, Minn.—M. D. Gates is selling out.

Nevada, Ia.—Jno. Millard & Co. have sold out.

Colfax, Ia.—The A. A. Penquite Hardware Co. are selling out.

## LUXURIOUS TRAVELING.

The magnificent and fast steamers "City of Erie" and "City of Buffalo" of the Cleveland & Buffalo Transit Co. are now running daily between Cleveland and Buffalo, leaving each city at 8:00 p. m. and arriving 6:30 a. m., Central standard time. This is the Popular Commercial Tourist and World's Fair Route, and passengers can save money by using this line and enjoy the comforts of home. Send four cents in postage for handsome illustrated tourist book. W. F. Herman, general passenger agent, Cleveland, O.

# Heating and Ventilating

Joseph Westover is a new Kingston, Pa., heating man located at 701 Market St., that city.

Edward Robinson of the Robinson Furnace Co., Chicago, is at present on a recreation trip through Cuba.

The Duplex Radiator Co., Newark, N. J., are considering an offer from Newton, N. J., to remove to that point.

A. R. Kennedy, C. B. Frantz and William A. Titus are the incorporators of the Automatic Ventilator Co., New York, capitalized at $20,000, to deal in automatic ventilators.

John Hankin, Richard Hankin and Joseph H. Claffy are the incorporators of John Hankin & Co., Brooklyn, N. Y., capitalized at $25,000 for carrying on a steam heating and engineering business.

The Chicago Heater & Supply Co. have moved from 32 Dearborn St. to larger quarters at 56-58 Dearborn St. They are showing a line of radiators, furnaces, steam and hot water heaters, registers and general heating supplies.

Walter Jones of Stourbridge, Eng., the eminent heating engineer and international authority on hot water heating, was a recent caller at THE AMERICAN ARTISAN office. Mr. Jones is as well known among American as English members of the heating fraternity, owing to his authorship of THE AMERICAN ARTISAN Hot Water Manual.

The Chicago Furnace Supply Co., 64-66 W. Monroe St., Chicago, have recently issued a very neat hang-up card, which gives the net prices on furnaces, furnace pipe, registers and fittings, and which is a great convenience to the trade, as it furnishes at a glance the cost of all kinds of furnace material. This card is printed on heavy enameled cardboard and presents a neat appearance. It will be sent to furnace men on application. When writing for same, kindly add: "Saw it in THE AMERICAN ARTISAN."

## "COMFORT" HOT WATER HEATER.

The Thatcher Furnace Co., 240 Water St., New York, are manufacturers of the Comfort hot water heater shown in the accompanying cut.

Comfort Hot Water Heater.

In this heater the fire-pot is round, properly proportioned, and deeply corrugated on the side coming in contact with the fire, which not only increases the amount of direct fire surface, but also aids combustion. It is constructed to provide for expansion and contraction in a most effective and simple manner.

The combustion chamber is very large, and its interior is so arranged as to secure the most direct and effective heating surface possible, it is claimed.

A distinctive feature in the construction of this heater is the extended heating surface in fire chamber, which is formed by a series of lobes or projections, which extend downward over the hottest part of fire, coming in contact with the best products of combustion, thus greatly increasing the amount of direct horizontal fire surfaces, and at the same time dividing the water so effectively as to bring the largest proportion in direct horizontal contact with the fire, insuring great economy in fuel and a perfect and continuous circulation.

The sections used in this heater are made with a series of flues in sufficient number to divide the water spaces in proper proportion. These flues are large and made in tapering form; the opening at the bottom, where the smoke and gases enter, being much larger than the one for their exit at the top, which gradually retards the upward course of the heated smoke and gases, bringing them in constant and direct contact with the water surface for a much longer period than if the straight flue were used. The sections are placed alternately to stagger the flues, so that the heated gases may be distributed uniformly over the entire surface of sections and all heat units absorbed before escaping into the hood, thence to smoke pipe.

The flues and waterways are amply large, to insure a positive and rapid circulation throughout the heater, insuring a steady water line.

Much of the heating surface in this heater is self-cleaning.

The "Comfort" is simple to erect, and being low in height it is especially suitable for low cellars. It has a large feed door and requires but little attention in operating, being automatically operated.

The grate used in this heater is of an improved pattern, which has been in use successfully for years. It is easily operated from the front by a shaker and is so fitted that ordinarily a single turn of shaker effectually clears the fire. These grates can easily be removed and replaced without disturbing any other part of heater.

## A NEW FURNACE CONCERN.

The Youngstown Furnace Co., Youngstown, O., will manufacture hot air furnaces and perhaps will add later steam and hot water heaters. The man at the head of this company is Leon Gschwind, a practical furnace man who has been connected with different furnace concerns. He is now the holder of several valuable patents which he expects to utilize in the construction of their new furnaces.

For the present this firm do not expect to build a plant of their own, but will have the work done by contract. They expect to have furnaces on the market in about six weeks. The officers of the company are as follows: Leon Gschwind, president and general manager; William Ramm, vice president, and Chas. F. Ohl, secretary and treasurer.

Ober & Son succeed Youngmeyer & Duea in the hardware business at Pipestone, Minn.

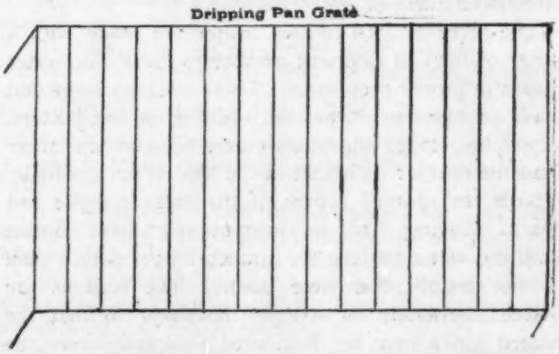
# Tinshop

## COMBINATION BREAD BOX.

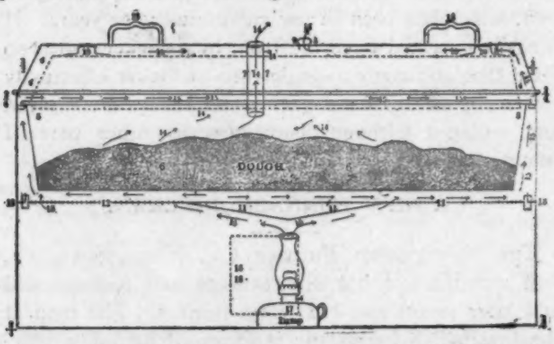
TO THE AMERICAN ARTISAN

Inclosed herewith I hand you a drawing of a combination bread box, designed for setting yeast, and raising dough. It may be made in three sizes. One size may be 28 inches long by 14 inches wide, and 20 inches deep. Make a double cover, the outside one to fit the body of the box and the inside one to fit the pan which holds the dough. The covers are fastened with two strips of hoop iron, and space is left of one inch

Dripping Pan Grate



for the hot air to circulate in. The pan which holds the dough sets one inch down from the top of the box to give room for the circulation of heat over the top of the bread pan. A curved copper cover with water in it may be used over the lamp is preferred, and the bread raised with steam if desired. This is the only change which would have to be made to use steam. If only the heat from the lamp is used to raise the bread, only a very small lamp should be used as it requires little or no heat to raise bread except in winter in a cold room. A small thermometer may be placed in the cover to regulate the amount of heat.



Eighty degrees will be plenty. The detailed description of the box is as follows:

2-4 2-4 2-4 2-4 body of bread box.

3-2 3-2 outside cover of box.

4 4 4 4, dotted lines, the outside cover for dough pan 5 5.

5 5, pan for raising dough.

6 6, dough in pan 5 5.

7 7, tube that passes through both covers to conduct the gas that arises from the dough in pan 5 5.

8 8, hole in the outside cover of box to let hot air and gas escape from the lamp.

10 and 10, pieces of strong hoop iron which keep the two covers one inch apart for hot air to circulate.

11 11, pieces of sheet iron concaved, with the center side toward the top of the lamp so as to produce an equal distribution of heat on the bottom of the pan 5 5.

12 12, simply number 7 wire with a loop in each end which drops over a couple of little hooks, 13, 13, on the inside of the bread box, to hold up the piece of concaved iron.

14 14 14 14 14, arrows, indicate gas escaping from the raising bread in pan 5 5.

15 15 15, etc., gas and hot air from lamp.

16, 16, door in body of bread box.

17, small lamp for making heat.

18 and 18, handles to cover.

To use this apparatus, put the bread dough in the pan, light the lamp and turn it down low. In summer the lamp is not needed; only open the door and allow the air to circulate through the box. The grate shown in the drawing is to be put into the bread pan after the dough has raised, and been molded into loaves to raise for the oven. When the bread is baked the pan may be taken out and a box to keep the bread in is then available. Thus this article is always in use and, therefore, becomes indispensable.

I have one of these combination bread boxes in use and its operation is satisfactory in every respect.

Chicago, Dec. 23, 1903. E. S. RUBENS.

## EXHIBIT OF TINNERS' TOOLS.

Bertsch & Co., Cambridge City, Ind., have a very handsome exhibit at the Louisiana Purchase Exposition including the following special machines:

One 3¾"x37" double back geared forming roll for hand power.

One 37" treadle power gap squaring, slitting and trimming shear, with 15" throat, for No. 16 gauge metal.

One No. 2 style power shear with 37" blades, 15" throat, for No. 14 gauge metal.

One No. 6 style combined power squaring shear and gang punching machine, with capacity to cut No. 12 gauge iron, and to punch a row of holes the full length between the housings (50") up to the shearing capacity, and with 18" throat housings. This is an entirely new machine.

One 5"x62" power forming roll built on the housings and provided with friction clutch pulleys and cup friction drive.

One No. 40 style treadle power squaring shear for No. 18 gauge.

One No. 8 style shear, with 126" blades, direct motor driven, for cutting 3-16" mild steel sheets.

By this range of display they show that they build machines from a very light hand power punch, shear or roll, up to machines 10' to 15' in length for 1" thickness of metal, and even up to 1½" thick.

## JOHNSON'S HANDY MANUAL.

John W. Johnson, No. 802 Stewart Building, Chicago, is the author of Johnson's Handy Manual for steam and hot water fitters, plumbers, etc. This book, which is substantially bound, is of a size to fit in the vest pocket. It tells how to construct long horizontal flow mains in hot

water heating plants, gives tables showing the size of chimneys with approximate horse power boiler, and easy and correct method of ascertaining the length of pipe required in 45 degree angles, table of diagonals for 45 degree triangles measuring from 1 inch to 20 feet on the side; radiation in low pressure steam heating plant below water line of boiler; definition of a unit of heat; data on combustion of fuel in house-heating boilers; size of chimney flues; number of brick for brick-setting various sizes of tubular boilers; table of relative sizes of one-pipe steam main; heating surface of boilers; method of measuring pipe and fittings; size of fresh air inlets to indirect stacks; amount of direct radiation that can be heated by exhaust steam; size of main steam pipes; radiating surface pipe will supply; glass surface; exposed wall surface; cubical contents of room in relation to radiation; securing proper amount of indirect radiation; reming hot water circulation; heating green houses; tank capacity; lead burning; miscellaneous information, etc. The book contains a number of illustrations and will be found valuable by all heating men.

## NOTES AND QUERIES.

SUCCESSORS OF THE CHICAGO STAMPING CO.

From R. Moebus, Butte, Mont.

Who are the successors of the Chicago Stamping Co.?

Ans.—Sturges & Burn Mfg. Co., Green and Peoria streets, Chicago, Ill.

ANGLE IRON.

From Marion Stove Co., Marion, Iowa.

Where can we buy angle iron?

Ans.—Birmingham Rolling Mill Co., Birmingham, Ala.; Cambria Iron Co., Johnstown, Pa.; Carnegie Steel Co., Ltd., Pittsburg, Pa.; Cleveland Rolling Mill Co., Cleveland, Ohio; Diamond State Iron Co., 29 Broadway, New York; Globe Rolling Mill Iron & Steel Co., 165 W. Pearl St., Cincinnati, Ohio; H. Lloyd's Sons, Pittsburg, Pa.; Passaic Rolling Mill Co., Patterson, N. J.; Phoenix Bridge Co., Philadelphia, Pa.; Portage Iron Co., Ltd., Duncansville, Pa.; A. & P. Roberts Co., 261 S. 4th St., Philadelphia, Pa.; Tudor Iron Wks., 415 Locust St., St. Louis, Mo.; Union Iron & Steel Co., Youngstown, O.

SLED RUNNERS.

From Marion Stove Co., Marion, Iowa.

Where can we buy sled runners?

Ans.—J. A. Gleason & Bro., Van Wert, O.; Shelt Carriage Mfg. Co., Cincinnati, O.; Van Wert Spoke & Bending Works, Van Wert, O.

FRUIT PICKERS.

From Geo. W. Stengel, Amelia, C. H., Va.

Where can I buy fruit pickers?

Ans.—Acme Shear Co., Bridgeport, Conn.; Edward Darby & Sons, 233 Arch St., Philadelphia, Pa.; Gilbert & Bennett Mfg. Co., Georgetown, Conn., and the San Jose Agricultural Works, San Jose, Cal.

LEMON SQUEEZERS.

From Geo. W. Stengel, Amelia, C. H., Va.

Where can I buy lemon squeezers?

Ans.—Arlington Mfg. Co., New York, N. Y.; Wm. Crabb & Co., Newark, N. J.; Chalfant Hardware Mfg. Co., Atglen, Pa.; Empire Knife Co., W. Winsted, Conn.; Erie Specialty Co., Erie, Pa.; Humason & Beckley Mfg. Co., New Britain, Conn.; Meriden Brittania Co., Meriden, Conn.; Parks & Parks, Troy, N. Y.; Reed Mfg. Co., Erie, Pa.; M. Seller & Co., Seattle, Wash.; Tucker & Dorsey Mfg. Co., Indianapolis, Ind.

CHAS. BAUMGARTNER'S FENCE.

From E. E. Brown, Bloomington, Ill.

Is the Baumgartner fence patent for sale?

(Can any of our readers answer this question? —Ed.)

NEW AURORA SOLDERING FURNACE.

From "Reader," Minneapolis, Minn.

Who makes the new Aurora soldering furnace?

(Can any of our readers answer this question? —Ed.)

CEMENT TOOLS.

From W. E. Brooks, Elgin, Neb.

Would like address of jobbers of cement sidewalk tools?

Ans.—H. Channon Co., Chicago.

## ITEMS.

G. W. Barber, Uniontown, Pa., has sold out his furnace, slate roofing and tinsmithing business to the Fayette Roofing Co.

flow into the cistern. It is made to fit all spouts.

Dickerson, Van Deusen & Co., tin plates and metals, have recently moved from 27 Cliff St. to 32 Cliff St., New York City.

The Ætna Standard plant of the American Sheet & Tin Plate Co., located at Martin's Ferry, Ohio, made a recent shipment of 800 tons of finished material, thus making a new record.

The death is announced of Henry H. Hendricks of Hendricks Bros., New York metal dealers, which took place on May 27 last from heart disease. Mr. Hendricks was in the 44th year of his age.

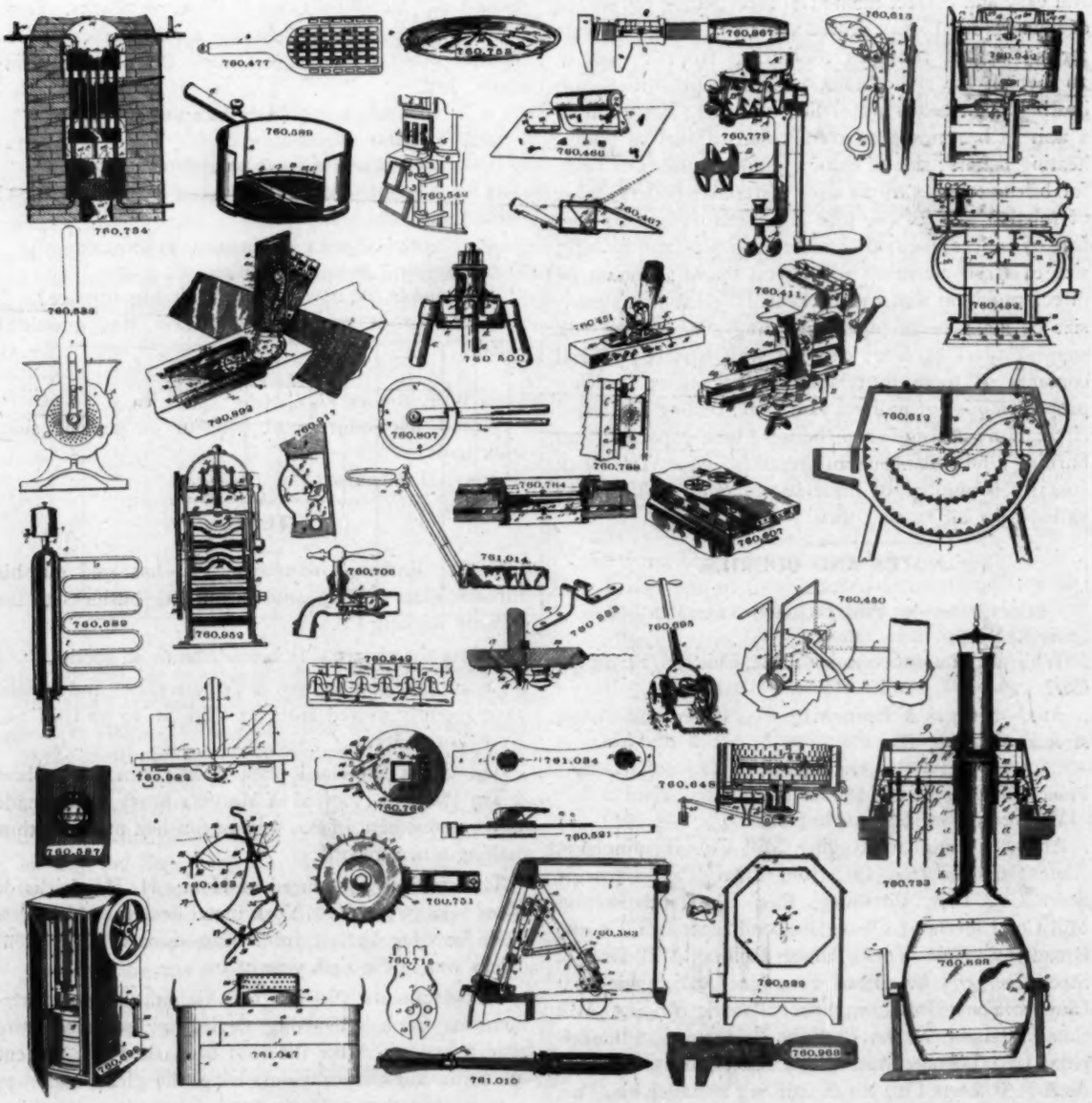
The Automatic Cut Off Co., Galion, O., are manufacturers of a self-acting device for securing pure cistern water. After the roof is washed off, the cut off turns automatically, allowing the clean water to

It is said that a large number of prospectors are looking for tin mines in the vicinity of Gastonia, South Carolina, and that syndicates have purchased all land lying in the supposed vein extending from Gaffney, South Carolina, where the Ross discoveries were made some two years ago.

The Bassett-Pressley Co., Cleveland, Ohio, send us a circular calling attention to their corrugated, V crimped and roll roofing, pressed steel brick and clapboard siding, Crown extra half and half solder, Bassett genuine charcoal iron terne, Autograph, Florentine, Basco, Irago and Bangor Old Process ternes.

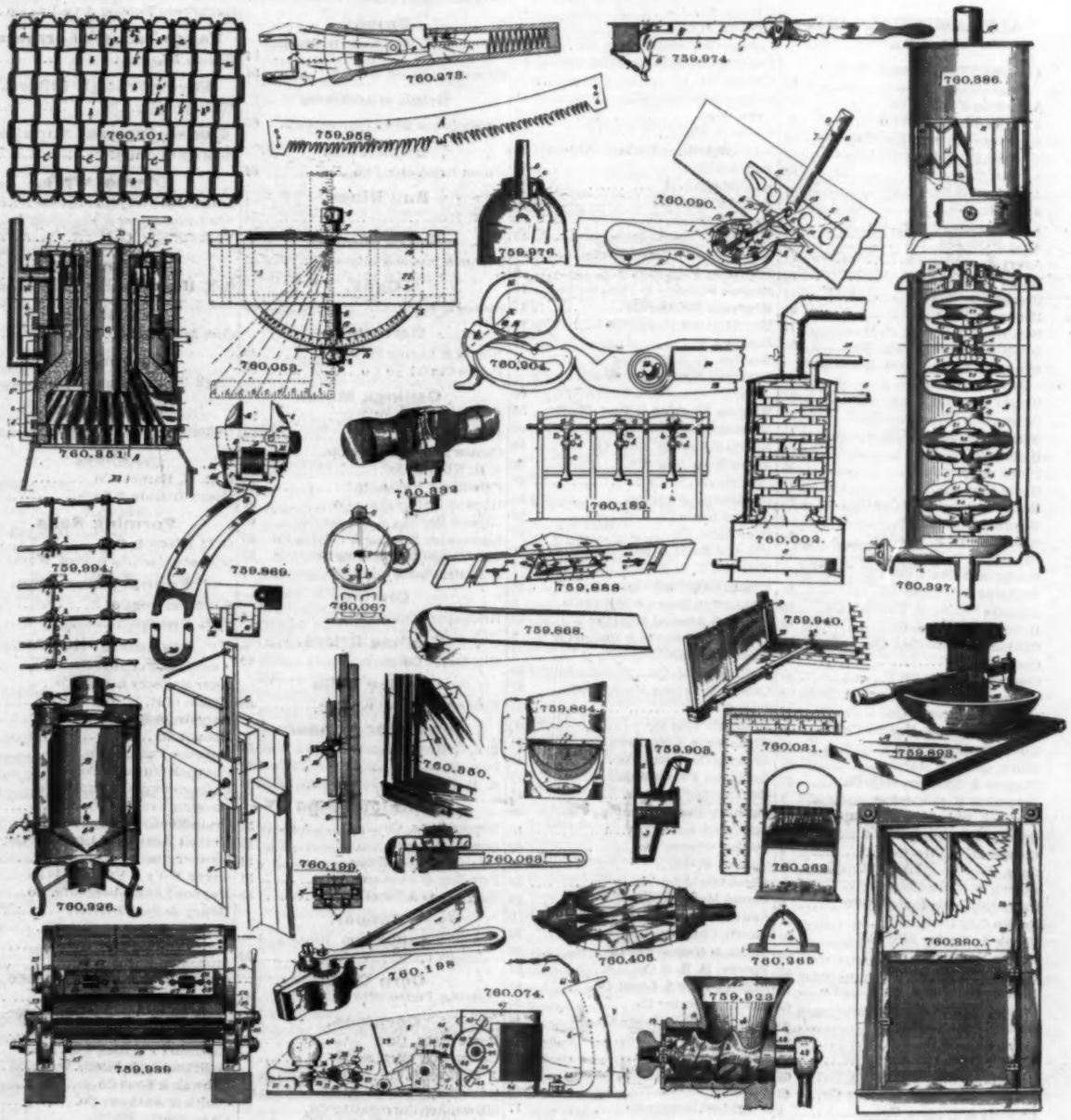
The Galesburg Cornice Works, Galesburg, Ill., have taken a step which has considerably astonished the trade in making a decisive reduction in the price of their adjustable stamped metal hip shingles. These shingles, which were invented by I. H. Willis, some decade or so ago, have been very popular and have been handled by the trade in large and constantly augmenting quantities. This reduction in price on the manufacturer's part will greatly stimulate their use.

# NEW PATENTS.



760,411—Vise. Charles Arnold, New York, N. Y.
760,432—Computing-scale. A. C. Dodge, Binghamton, N. Y.
760,451—Brush-handle. H. A. Hayden, Jersey City, N. J.
760,450—Clothes-line reel and stretcher. Andy E. Hall, Eagle Grove, Iowa.
760,466—Trowel. Harry G. Meyer, Indianapolis, Ind.
760,467—Dust-pan. Conrad Michaud, New York, N. Y.
760,477—Shovel. Svante H. Nystrom, Chicago, Ill.
760,493—Animal-poke. H. A. Simpson, Sycamore, Kans.
760,500—Stirrer-head for Washing-machines. Adolph Wahle, Davenport, Iowa.
760,521—Wrench. Harry Cowan, Hagerman, N. Mex.
760,522—Ash-sifter. Joseph Cromwell, Jr., Baltimore, Md.
760,532—Wrench for Meat-choppers. Alwin J. Gerhardt, Milwaukee, Wis.
760,542—Furnace Attachment. Thomas J. March, Pottstown, Pa.
760,583—Check for Sliding Doors. Warren H. Taylor, Stamford, Conn.
760,587—Level. Justus A. Traut, New Britain, Conn.
760,589—Flour-sifter. Wm. T. Vallandingham, Albia, Ia.
760,607—Food-warmer. William S. Bonsall and Le Roy C. Bonsall, Philadelphia, Pa.
760,612—Washing-machine. J. R. Carter, Augusta, Ky.
760,689—Water-heater. J. G. Hall, Buckhannon, W. Va.
760,693—Vent for Churns. Charles F. Lancaster and James D. Andrews, Petoskey, Mich.
760,613—Combination-tool. John M. Clark and John C. Crume, Dayton, Ohio.
760,648—Combined Washing-machine and Drier. Charles F. Schmidt and Charles Kleinknecht, Philadelphia, Pa.
760,695—Lawn-mower. Harry W. Leavitt, Tuscola, Ill.
760,699—Churn. Joel W. Newton, Elberton, Ga.
760,715—Nail-puller. George Walker, New Britain, Conn.
760,733—Smoke-stack. Paul Dickinson, Chicago, Ill.
760,734—Hot-water Boiler. C. Gaebler, Poughkeepsie, N. Y.
760,751—Attachment for Lawn-mowers. William H. Ogden, Philadelphia, Pa.
760,753—Pot-cover. Charles H. Pickett, Eugene, Ore.
761,047—Combined Dinner-pail and Heater. Samuel C. Hays, Sandylake, Pa.
760,963—Wrench. George B. Cooper, Allegheny, Pa.
761,010—Soldering-iron. Charles B. Rodgers, Bordentown, N. J.
760,942—Washing-machine. A. N. Woodard, Mansfield, O.
760,892—Miter-box. John J. Marrs, Harrison, Ark.
760,867—Wrench. Stefan Holzinger, Homestead, Pa.
760,779—Food-cutter. George A. Colton, Phoenix, N. Y.
760,952—Hose Puller and Wringer. James A. Britton, Bethlehem, Pa.
760,982—Miter-box. William H. Gordon, Portland, Ore.
760,917—Level and Plumb. A. J. Patterson, Huntsville, Ala.
760,807—Cutting-nippers. Lee Roberts, Watkins, N. Y.
760,766—Ratchet-wrench. Samuel A. Swilley, Pavo, Fla.
761,014—Toaster. Eli Shupe, Racine, Wis.
760,788—Sash-balance. Clayton Harris, Providence, R. I.
760,764—Shutter. Clark D. Spalding, Baltimore, Md.
761,034—Chain. James M. Dodge, Philadelphia, Pa.
760,706—Bib-cock. Henry F. Schroeder, Cleveland, Ohio.
760,842—Egg-case Tray or Filler. Ferdinand F. Bischoff, Milwaukee, Wis.
760,933—Door-securer. William Stamp, Salem, Ohio.

# NEW PATENTS.




760,226—Heater. Bernard I. Mahon, Sanborn, Iowa.

760,262—Stove Attachment. W. G. Shoals, Utica, N. Y.

760,265—Chimney-cap. George F. Smith, Baltimore, Md.

759,923—Food-chopper. C. F. Smith, New Britain, Conn.

760,405—Flue-scraper. William Appenbrink, Quincy, Ill.

759,903—Filter for Rain-spouts. Aratine G. Moeckel, Rockwell, Tex.

759,994—Wire Fencing. James Harris, Janesville, Wis.

760,273—Wrench. Jesse Talbert, Wagoner, Ind. Ter.

760,101—Matting. A. S. Burnell, Marshalltown, Iowa.

760,390—Window-screen. Thaddeus A. Foust and William A. Hunter, Pittsburgh, Pa

759,864—Sitter. Henry F. Cohn, Jr., Louisville, Ky.

759,868—Wedge. Albert A. Eich, New Munich, Minn.

759,869—Wrench. David R. Ellis, Chicago, Ill.

760,067—Washing-machine. C, W. Hottman, Philadelphia, Pa.

759,958—Saw. William H. Batchelder, Akron, Iowa.

760,031—Try-square. Charles E. Smith, Bridgeport, Conn.

760,327—Water-heater. Joseph M. Fox, Peekskill, N. Y.

760,074—Hand-plane. William E. Lee, Weymouth, Mass.

760,090—Saw-guide. Henry H. Venable, Los Angeles, Cal.

760,332—Wedge. Christopher J. Greliner, St. Louis, Mo.

759,976—Oiler or Oil-can. Harry M. Edwards and Alfred C. Rantsch, New York, N. Y.

760,053—Miter-box. John W. Beman, Maloy, Iowa.

759,893—Meat-tenderer. Martin Knutsen, Fresno, Cal.

760,063—Wrench. Jacob Emig and Archibald McKaig, Sr., Wayland, N. Y.

759,974—Wire-stretcher. David S. Durall, Hurdland, Mo.

760,350—Fastener for Sashes. M. Rodney, Iowa Falls, Ia.

760,351—Wtaer-heater. Michel Schaack, Chicago, Ill.

760,002—Water-heater. R. S. Lawrence, Boston, Mass.

759,888—Ventilator. F. H. Hitchcock, Somerville, Mass.

760,182—Ventilating Device. Samuel E. Chapman and Benjamin A. Osborn, Watsonville, Cal.

759,940—Ventilator. F. M. Thompson, East Liverpool, O.

759,939—Tumbler or Rattle-barrel. Arthur J. Thomas, Harvey, Ill.

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760,199—Adjustable Clothes-line Support. Samuel D. Harrell, Philadelphia, Pa.

760,204—Shears. H. C. Heinisch, Irvington, N. J.

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## CHICAGO IRON MARKET.

The conditions noted last week continue. Extreme lethargy prevails and seems likely to have the upper hand for some time to come. Buyers are not to be coaxed by any downward turn that prices may make. Occasionally there is demand for one or two carloads, but no orders of considerable amount were received during the last week. Iron is not wanted at any price.

Strikes continue to influence the local situation. The report that several furnaces had gone out of blast for lack of ore is now denied. The Iroquois Iron Co. is now declared to be the only one so far affected. Even this furnace, however, is said to be well enough supplied to fill all present and prospective orders for the next three months. The International Harvester Co. reports that the tie-up on the lakes has not been felt. They anticipate recommencing operations next week.

The other furnaces said to be out of blast are idle for relining or other repairs.

The machinist strike is at present without any prospect of settlement. The Goss Printing Press Co. is attempting to solve the difficulty by the employment of non-union men. So far they have had doubtful success. Other machine shops have been closed indefinitely, awaiting the outcome of the struggle at the Goss plant.

Again there is to be strong probability of a strike among the coal miners in Alabama and Tennessee. The employers are threatening a five per cent decrease in salaries to stave off any possible demand for an increase. The trouble is not deemed very serious at the present moment.

Southern Iron No. 2 is selling on the basis of $9.25 Birmingham, and Northern No. 2 at $13.50. Prices are rather firm.

## IRON AND STEEL BARS.

A great improvement in the demand is to be noted. Seven thousand tons of iron bars were placed last week. Most of the orders were received from railroads or railroad-equipment plants. One lot was for about 5,000 tons from the Western Steel Car & Foundry Co. The sale was made on the basis of $1.35 Chicago. Smaller lots are firm at $1.40. We quote current prices in this market, carload lots, mill shipments, as follows: Bar iron, 1.35c to 1.40c, full extras; soft steel bars, 1.51½c, half extras, with 5c to 10c per 100 pounds extra for less than a carload and with regular extras for less than a ton of a size; angles, less than 3x3, 1.56½c base, half extras; hoops, 1.50½c, full extras. On lots from store, we quote iron bars, 1.75c base full extras; steel 1.70c to 1.80c base, half extras; hoops, 2c to 2.10c, full extras.

## SHEETS.

No regularity in prices is being observed. Orders are usually for small lots, while inquiries are made at all the producers in the market. Variety in schedule is thus obtained. We continue to quote for one pass, cold rolled, blue annealed sheets, mill shipments, Chicago delivery, as follows: Nos. 11-12, 1.86½c; Nos. 13-14, 1.91½c; Nos. 15-16, 2.01½c. On box annealed, one pass, cold rolled, Nos. 18-20, 2.11½c; Nos. 22-24, 2.16½c; Nos. 25-26, 2.21½c; No. 27, 2.26½c; No. 28, 2.36½c; No. 29, 2.51½c; No. 30, 2.61½c. Some changes have also been made in store prices, and leading local jobbers have adopted the following schedule: Nos. 8-10, 2.10c; No. 12, 2.20c; No. 14, 2.25c; No. 16, 2.30c; Nos. 18 and 20, 2.40c; Nos. 20-24, 2.45c; No. 26, 2.55c; No. 27, 2.65c; No. 28, 2.85c; No. 29, 2.95c; No. 30, 3.10c. Galvanized sheets have also been cut, and producers are quoting 80 and 2½ to 80 and 10 per cent discount at mill carload lots; while jobbers' prices on the same product range from 75 and 7½ to 75 and 10 per cent discount.

## PLATES.

Stove trade is good. Shipments, however, are a little delayed because of the strike among the jobbing-house employes. It is considered probable that the mill at South Chicago will start up next week. We continue to quote association prices on carload lots, mill shipments, Chicago delivery: Tank steel, ¼-inch and heavier, 1.76½c; flange steel, 1.86½c; marine, 1.96½c; universal mill plate, 1.76½c to 1.81½c; 3-16-inch tank, 1.86½c; Nos. 7 and 8, 1.91½c; No. 9, 2.01½c; No. 10, 1.91½c; No. 11, 1.96½c; No. 12, 2.01½c. From store, we quote tank steel, ¼-inch and heavier, 2c; 3-16, 2.15c; No. 8, 2.20c; No. 10, 2.25c; flange steel, 2.25c to 2.35c all f. o. b. warehouse.

## RAILS AND TRACK SUPPLIES.

Rails are selling very briskly. The demand for standard sections has improved, one contract for 7,500 tons having been let during the week. One concern making this commodity has reported sales aggregating 20,000 tons during the present month. Competition in light rails has reduced the price to $23, Chicago. Track supplies are quiet. New business is light, specifications rather heavy. We quote heavy rails, mill shipments, 500 tons and over, $28; less than 500 tons to carload lots, $30; less than carload lots, $32; second quality rails, $27; light rails, $23 to $25, with regular differentials for immediate sizes. The following quotations on track supplies, which are f. o. b. Joliet mill, may be shaded on large orders. Angle bars, 1.40c to 1.50c; spikes, first quality, 1.70c to 1.80c (out of store, 1.90c rates) track bolts, 3½x¾, with square nuts, 2.30c to 2.40c per 100 pounds; with hexagon nuts, 2.45c to 2.55c, with usual differentials for other sizes.

## OLD MATERIAL.

The situation is practically unchanged. There is little demand, except that which is forced by the at-

tractive prices of some dealers, and the market may be correctly characterized as a weak one. We quote prices paid on recent transactions as follows: Old iron rails, $15.50 to $16.50; old steel rails (mixed lengths), $9.25 to $9.75; old steel rails (long lengths), $11.00 to $11.50; relaying rails, subject to inspection, $23.00 to $24.00; relaying rails for sidetracks, $18.00 to $20.00; old wheels, $12.00 to $12.50; heavy melting steel, $9.50 to $10.00; mixed country steel, $9.00 to $9.50.

### CHICAGO HARDWARE SCRAPS.

The last week, with its sunny skies, boomed the hardware business considerably. This week opened up very promisingly, however. Hardware trade seems to rise as the thermometer, becoming successful only with favorable weather. An improvement was noticed, as was expected, in all out-of-door goods, especially garden-tools, lawn-mowers, wire-screens, lawn-sprinklers, etc. Refrigerators, ice-cream freezers, etc., are selling very favorably. Builders' hardware is not so satisfactory as could be wished. In comparison with former years, the aggregate of sales is quite low, though, in comparison with other lines this year, we have yet to hear a complaint. The competition between the leading firms and independents in small fixtures—hinges, door-catches, locks, etc.—is quite strong. However loudly the contestants may resent the cutting of prices, it remains to be noted that none are to be seen balking at orders.

Crops are said to be good and there seems to be no cause for predicting hard times in the near future. Nevertheless, there is little doubt but what hardware men should consider themselves very well off at the present time. All other lines of industry seem to be busy reducing the cost side of the balance-sheet. Railroads are dismissing men and subtracting from the salaries of those who remain. The same may be said of the textile and pig iron industries.

There is the summer trade before hardware men, and consequently plenty of time for conditions to change. The falling off of other trades may be simply due to the apathy always preceding a presidential election. On the whole, there seems to be little ground for grave apprehension.

### BARB WIRE.

Demand is easier, but mills are not able to meet orders for all grades. Prices are unchanged and will probably remain so for the next month.

### SMOOTH FENCE WIRE.

Mills are still very busy and will continue so until far into the summer, merely filling past orders. New business is gratifyingly light. Quotations are unchanged.

### COPPER.

The market for ingot copper is quiet and easy. Lake is quoted at 13@13⅛c; electrolytic, 12¾@13c; casting, 12½@12¾c. The London closing was cabled quiet: Standard copper, spot, £56 7s 6d; futures, £56 7s 6d.

The Copper Manufacturers' Association quotes manufactured copper firm and unchanged on a basis of 18c per lb. for sheets and bars. Yellow sheathing material is quoted on a basis of 15c.

### PIG TIN.

The market for pig tin is weak and lower, the New York quotations being 27@27⅜c for spot and 26¾@27¼c for June. The jobbing price is steady at 29@29½c. The closing in London was cabled quiet at £122 for spot and £121 12s 6d for futures.

### TIN PLATES.

Tin plates are steady at revised jobbing prices: Melyn, $6@6.50; Alloways, $5.25@5.75; coke, $4.87½@6.50; ternes, $4.50@7; additional X, $1.50@1.75 more.

### LEAD.

A further decline has been made by the American Smelting & Refining Company in prices of pig lead to 4.25c for 50-ton lots in New York and 4.32½c for 25-ton lots, both for future shipment. Spot lots are firm at 4.35@4.45c in New York. St. Louis is quoted at 4.15@4.17½c. The jobbing price is 4¾@5c, according to quantity. The London quotation is £11 8s 9d.

Manufactured lead is firmer and higher. The leading interests have reached an agreement as to prices, and the recent unprofitable cutting has been stopped. The quotations are: Lead pipe, 6¾c; sheet, 8¼c; tin pipe, 50c; tin-lined pipe, 12½c; old lead in exchange, 3¾c; tea lead, 3¼c.

### SPELTER.

Spelter is weak and lower: Round lots, New York, 4⅞@5c for spot and futures; jobbing, 5⅜@5⅞c; sheet zinc, cask lots, 6¼c; small lots, 7¼c; St. Louis is lower at 4.65c; London, £22 5s.

### ANTIMONY.

Antimony is quiet. Round lots, New York: Cookson's, 7½@7¾c; Hallet's, 7@7½c; United States, 6⅛@6⅜c; Italian, French and Japanese, 6⅛@6⅜c.

### NICKEL.

Nickel, 40@47c for large lots, and 50@60c for small lots.

### QUICKSILVER.

Quicksilver, New York, $45 per flask for large lots; small orders, $46@46.50; San Francisco, $44@45, domestic orders; for export, $41.50@42; London, £8 5s.

### ALUMINUM.

Aluminum, No. 1 ingot, 33c per lb.; No. 2, 31c.

# Current Hardware and Metal Prices.

**THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.**

## METALS.

### FIRST QUALITY BRIGHT PLATES.

| | | | Per Box. |
|---|---|---|---|
| IC | 14x14 | | $10 25 |
| IC | 14x20 | | 6 75 |
| IX | 14x20 | | 8 00 |
| IXX | 14x20 | | 9 20 |
| IXXX | 14x20 | | 11 60 |
| IXXXX | 14x20 | | 12 85 |
| IC | 20x28 | | 13 50 |
| IX | 20x28 | | 16 00 |
| IXX | 20x28 | | 18 40 |
| IXXX | 20x28 | | 20 80 |
| IXXXX | 20x28 | | 23 20 |

### COKE PLATES.

| | | | |
|---|---|---|---|
| Cokes, 180 lbs | IC | 20x28 | 8 50 |
| Cokes, 200 lbs | IC | 20x28 | 8 80 |
| Cokes, 216 lbs | IC | 20x28 | 9 10 |
| Cokes, 216 lbs | IX | 20x28 | 11 10 |

### PIG IRON.

| | |
|---|---|
| Lake Sup. Charcoal | $14 50@$15 00 |
| Local Coke Fdy No. 1 | 14 00@ 14 50 |
| Local Coke Fdy No. 2 | 13 50@ 13 75 |
| Local Coke Fdy No. 3 | 13 25@ 13 50 |
| Local Scotch Fdy No. 1 | 14 25@ 14 50 |
| Chio Strong Softeners, No. 1 | 15 30@ 15 80 |
| Southern Silvery | 14 85@ 15 85 |
| Southern Coke No. 1 | 13 40@ 13 65 |
| Southern Coke No. 2 | 12 90@ 13 15 |
| Southern Coke No. 3 | 12 40@ 12 65 |
| Southern Coke No. 4 | 12 15@ 12 40 |
| Southern No. 1 Soft | 13 40@ 13 65 |
| Southern No. 2 Soft | 12 90@ 13 15 |
| Alabama Car Wheel | 18 85@ 19 35 |
| Malleable Bessemer | 14 00@ 14 50 |
| Jackson Co. Silvery | 17 80@ 18 30 |

### BLACK SHEET STEEL.

| | | |
|---|---|---|
| No. 16 | per 100 lbs. | $2 55 |
| No. 18-20 | per 100 lbs. | 2 60 |
| No. 22-24 | per 100 lbs. | 2 65 |
| No. 25-26 | per 100 lbs. | 2 70 |
| No. 27 | per 100 lbs. | 2 75 |
| No. 28 | per 100 lbs. | 2 85 |
| No. 29 | per 100 lbs. | 3 15 |

### POLISHED SHEET STEEL.

| | |
|---|---|
| No. 24 per 100 lbs. | $4.90 |
| No. 26 " " | 5.00 |
| No. 27 " " | 5.10 |
| No. 28 " " | 5.20 |

### SMOOTH STEEL.

| | | |
|---|---|---|
| Wood's Smooth | No. 15-17 | 2 85 |
| " " | No. 18 | 2 95 |
| " " | No. 20 | 2 85 |
| " " | No. 22-24 | 2 85 |
| " " | No. 25-26 | 3 05 |
| " " | No. 27 | 3 15 |
| " " | No. 28 | 3 25 |

### PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

### GALVANIZED IRON

F.O.B. Chicago ..... 75 & 5%

### HOOP IRON.

| ¾x22 | ¾x20 | ¾x20 |
|---|---|---|
| $3 70 100lbs. | $3 60 100lbs. | $3 50 100lbs. |
| 1x20 | 1¼x19 | 1½x19 |
| $3 40 100lbs. | $3 35 100lbs. | $3 25 100lbs. |

### PAINTED CORRUGATED IRON.

8 x 2½ feet Sheets, 28 gage, per 100 lbs. ..... $3 60

### SOLDER.

XXX Guaranteed ½&½. per lb. 20½c
Commercial ½&½ ..... per lb. 19 c
No. 1 Plumbers ..... 17½c

### SHEET ZINC.

600 lb. Casks ..... base, per cwt. $6.35
300 lb. Casks ..... per cwt. 6.55
Sheets ..... per cwt. 6.60

### COPPER.

Copper ..... base, 21c

### TIN PIGS AND BARS.

Banca, pigs, per lb ..... 35@35½c
Straits pigs, per lb ..... 35c
Straits in bars, per lb ..... 37c

### LEAD.

American Pig ..... $4 60@4 62½c
Bar ..... 6¼
National (White) brands (in less than 100 lb. lots) per lb ..... 7½
*Sheet.*
Full coils ..... per 100 lbs. $6.75
Cu " " " " 7.25

## HARDWARE.

### ADZES.

*Carpenters'.*
Ajax ..... 35&10%
Blood's ..... 40&10%
Hunt's ..... 25%
White's ..... 12½%
*Coopers'.*
Barton's ..... 20%
White's ..... 15%
*Ship.*
Ajax ..... 22½%
Blood's ..... 37½%
Hunt's ..... 25%
White's ..... 12½%

### AMMUNITION.

*Caps, Percussion—per 1,000.*
F L Waterproof, 1-10s ..... 40c
G D ..... 35c
Eley's ..... 52c
*Cartridges.*
Peters Rim Fire Ctgs ..... 50&2%
Peters Cent Fire, Pistol & Rifle 25&2%
Peters Cent Fire, Military and Sporting Ctgs ..... 15&8%
Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.
Peters Blank Ctgs. 22 cal ..... $1 18
Peters Blank Ctgs. 32 cal., C. F. .. 4 40
Peters B B Caps, Round ball ..... $1 44
Peters B B Caps, Conical ball ..... $1 85
Winchester Cent. Fire, Military and Sporting Ctgs ..... 15&8%
U. M. C. B B Caps, Con. Ball $1 85 net
U. M. C. Rim Fire Shot Ctgs. 50&15&2%
U. M. C. Cent. " " " 25&15&2%
*Primers.*
Berdan Primers ..... $1 00
Peters Primers ..... 1 20
Winchester Primers ..... 1 20
*Shells.*
Peters Empty Paper Shells, 10 and 12 gauge. League ..... 25&2%
Peters Empty Paper Shells, 16 gauge. League ..... 20&2%
Peters New Victor Nitro Shls. 20&2%
Ideal ..... 25&7%
Peters Loaded Shells. League and Referee Semi-Smokeless. 40&1%
Peters New Victor Loaded Shells with King's Smokeless ..... 40&6%
Ideals Loaded with King's Smokeless ..... 40&10&1%
Winchester Blue Rivals ..... } 40&1%
Winchester Yellow Rivals ..... }
Winchester Repeater ..... 20&2%
Winchester Leader ..... 40&6%
U. M. C. Loaded Shells, Black Powder ..... } 40&1% full cases
Winchester Loaded Shells, Black Powder ..... }
*Gun Wads—per 1,000.*
Peters Gun Wads ..... 18%
U. M. C. Gun Wads ..... 18%

| *Powder.* | | Each |
|---|---|---|
| King's Smokeless, kegs | | $11 30 |
| " " | ½ kegs | 5 80 |
| " " | ¼ kegs | 2 97 |
| " " | 1-lb. cans | 51 |
| " " | 1-lb. " rifle | 70 |
| Dupont's " | 50-lb. drum | 22 45 |
| " " | 25-lb. kegs | 11 30 |
| " " | 12½-lb. kegs | 5 80 |
| " " | 6¼-lb. kegs | 2 97 |
| " " | 1-lb. cans | 51 |

*Shot.*
Dropshot, sizes smaller than B, 25-lb. bags, per bag ..... $1 60
Drop shot, B and larger sizes, 25-lb. bags, per bag ..... 1 85
Buck Shot, 25-lb. bags, per bag .. 1 85
Chilled Shot, 25-lb. bags, per bag. 1 85

### ANVILS.

Trenton, 70 to 80 lbs ..... 9½c per lb
Trenton, 81 to 150 lbs ..... 9c per lb

### AUGERS.

*Boring Machine* ..... 60&10&5%
Irwin's ..... 40&10%
*Carpenters' Nut* ..... 60&10&5%
*Hollow:* Ives' New Pattern .. 25%
Bonney's—list $30.00 ..... 75&5%
Stearn's, No. 1 ..... *doz.* $42 00
Stearn's, No. 3 ..... " 33 50
*Post Hole.*
Dalbey, 8-inch ..... per doz. $ 5 75
Digwell, 8-inch ..... " 13 00
Howe's, 6 and 8-inch .. " 11 00
Iwan's Improved ..... 40 & 5%
Vaughan's, 4 to 9-inch per doz. 6 50
*Rafting.*
Snell's ..... 50&5%
*Ship.*
Ford's, with or without screw, 40-5%
Snell's, " " " 40-5%

### AWLS.

*Brad*, handled ..... per doz. $0 28
shouldered, ass'd, 1 to 4 ..... per gr. 95
patent, asst'd, 1 to 4 " 90
*Harness*, common ..... " 1 10
patent ..... " 90
*Peg*, shouldered ..... " 95
patent ..... " 40
*Scratch*, No. 2, handled ... " 4 40
No. 1, socket handled ..... per doz. 1 15
No. 20 Hurwood " 2 00
*Sewing*, common ..... per gr. 90
patent ..... " 90

### AXES.

*Boys', Handled:*
Camp Fire, 3-lb., per doz ..... $6 25
" " 4-lb., freighters', per doz ..... 7 85
Cast Steel, good grade, pr. dz., 5 85
Pioneer, per doz ..... 7 00
*Broad:*
Peerless ..... 40&10%
Red Warrior, per doz ..... $2 00
*Firemen's*, per doz ..... 1 [illegible]
*Handled:*
Pioneer 3 in. to 4 in. base, doz 10 25
For 3½ in. to 4½ in. Adv. base 25
For 4 in. to 5 in. Advance base 50
For 4½ in. to 5½ in. Adv. base 75
*Single Bitted* (without handles)
Gladstone, per doz 3 to 4 lbs $8 50
Hubbard's conc. " " 6 75
Hunt's " " 6 75
Lippincott's " " 6 75
Mann's " " 6 75
Pioneer " " 7 25
U. S. A. " " 9 00
Valley Forge " " 6 75
Second Quality " " 6 50
Maricopa " "
The above price of 3 to 4 lbs. is the base price.
3½ to 4½ lbs. advance 25c.
4 to 5 lbs. advance 50c.
4½ to 5½ advance 75c.
*Double Bitted (without handles):*
Lippincott's 3 to 4 lbs per doz $9 50
Mann's " " " 9 50
Pioneer " " " 9 25
U. S. A. " " " 11 00
Valley Forge " " " 9 50
The above price of 3 to 4 lbs. is the base price.
3½ to 4½ lbs advance 25c.
4 to 5 lbs. advanc 50c.
4½ to 5½ lb . advance 75c.

### BALANCES, SPRING.

Frary's ..... 50%
Pelouze ..... 20%

### BAGS, PAPER NAIL.

Pounds .. 3 5 10 16 20 25
Per 1,000 $1 60 1 85 2 60 3 40 3 90 4 75

### BARS, CROW.

Pinch or Wedge Point ..... cwt. $2 95

### BASKETS.

*Galvanized Iron*— ½ Bu 1 Bu 1½ Bu
Per Doz $4 00 5 50 7 00

### BEAMS—SCALE.

P. S. & W. Co ..... 40%

### BEATERS.

*Carpet*, Rattan ..... per doz $2 40
Raymond's Steel Wire, " " 80
Woven Wire, No. 4 .. " " 1 10
*Egg.*
Dover Pattern ..... per doz. $0 70
Genuine Dover ..... " 0 90
Mammoth Dover ..... " 1 75
Lightning ..... " 0 84
Lyon's (standard size) " 1 75
Whip, French ..... " 1 35
Spiral ..... " 0 40
Spoon ..... " 0 40
Surprise ..... per gro. 1 45

### BELLOWS.

*Blacksmiths'* ..... 70&5%
*Hand*, 8 in ..... per doz. $ 6 85
10 in ..... " 8 40
*Molders'*, 12 in ..... per doz. 13 00

### BELLS.

*Call.*
2¾ in. nickeled bell . per doz. $ 1 35
2¾ in. " brass bell " 3 60
3 in. " " " " 7 50
3 in. " silver alloy bell, ..... per doz. 16 50
4½ in. " brass bell and base ..... per doz. 14 50
*Cow.*
Ordinary Goods ..... 70&5%
High Grade ..... 60&10%
Jersey ..... 70&10%
*Door.*
Bigelow Automatic .. per doz. $9 50
Rotary.
3 in. bronzed iron bell " 5 25
3 in. nickeled " " " 7 50
3½ in. " " " " 9 00
*Hand.*
Hand Bells, Polished .... 60@60&10%
White Metal ..... 50%
Nickel Plated ..... 40%
Swiss ..... 60&5%
Silver Chime ..... 33⅓%
*Miscellaneous.*
Church and School, Steel Alloy, ..... 50, 10 & 5%
Farm, lbs ... 40 50 75 100
Each $1 10 $1 30 $1 85 $2 65

### BEVELS—TEE.

Stanley's, rosewood handle, new list ..... 40&5%
Stanley's Iron handle ..... 40&5%

### BINDING—OIL CLOTH.

Zinc ..... 75, & 10%
Brass ..... 75%
Brass Plated ..... 75 & 10%

### BITS.

*Auger.*
Extra Double Spur ..... 70&10%
Ford's Car and Machine .... 40&10%
Ford's ..... 40&5%
Ford's Ship ..... 40&5%
Irwin ..... 45%
New Jenning's ..... 50&5%
Russell Jenning's ..... 25&10%
Clark's Expansive ..... 50, 10&5%
Steer's " Small ..... new list ..... $22.00
Irwin Car ..... 45%
Snell's Car ..... 60&5%
" Ship ..... 40&5%
Ford's " Auger Pattern Car .. 40&5%
*Center* ..... 40&10%
*Countersink—*
Wheeler's ..... per doz. $1 30
American Snail Head " 0 70
" Rose " " 0 80
" Flat ..... " 0 70
Buck Bros'. Flat ..... " 2 50
German ..... " 0 70
*Dowel*, New Jennings ..... 40&10%
*Gimlet—*
Standard Double Cut 50&5@50&10%
German Pattern ..... per doz. $0 45
Gouge ..... " 0 80
Spoon ..... " 0 80
Countersink ..... " 1 80
*Reamer—*
Buck Bros.' ½ Round. " 3 75
" " Square .. " 3 50
Standard ½ Round ... " 0 75
" Square ..... " 0 75
German Octagon ..... " 0 75
*Screw Driver—*
Round Shank ..... " 0 45
" " extra quality " 1 40
Square Shank ..... " 1 10

### BLACKING—STOVE (See Polish.)

### BLADES—SAW.

*Butchers'—*
Standard ¾ & 1¼in ..... 60&5%
Clock Spring ..... 60&5%
Star ..... 50%
*Hack—*
Disston's ..... 25&5%
Griffin's ..... 35&5%
Star ..... 20%
*Wood—*
Jackson's ..... per doz. $2 25
Disston's—No. 6, 16, 20 & 045, $4 20; No. 11, $6.30.
W. M. & Co.'s No. 20 .. per doz. $5 50

### BLOCKS.

*Snatch—*
Wooden ..... 55&10%
Steel ..... 40&10%
*Tackle—*
Wooden ..... 70&5%
Steel ..... 50, 10&5%

### BOARDS.

*Stove* ..... 40%
*Wash—*
Anchor ..... per doz. $1 60
Globe ..... " 2 10
Banner ..... " 2 60
Crystal ..... " 3 15
Brass King ..... " 3 15
Nickel Plate ..... " 3 15
Enamel King ..... " 3 15

### BOBS—PLUMB.

*Carpenters'*, 8½ oz. Iron .. per dz. $0 65
1½ lb. " " " 1 60
2½ lb. " " " 1 80
13 oz. lead .... " 3 00
6½ oz. brass. " 3 30
*Mason's*. 3 lb. lead .... " 4 00

### BOILERS—FARM.

Profit ..... 30&5%
Solo ..... 35&5%

### BOLTS.

*Carriage, Machine, Etc.*
Carriage. ⅜x6 and sizes smaller and shorter ..... 75%
Carriage. sizes larger and longer than ⅜x6 ..... 70@10%
Machine, ⅜x4 and sizes smaller and shorter ..... 75&5%
Machine. sizes larger and longer than ⅜x4 ..... 75%
Elevator ..... 50-10&5%
Plow ..... 60&5%
Stove ..... 75&10%
Tire ..... 72½&5%
Wagon Box Strap ..... 70&10%
*Mortise Door—*
Gem ..... 50-10&5%
Ives' ..... 50&10%
*Barrel—*
Cast ..... 50%
Wrought ..... 50&5%
" Bronzed ..... 75&5%
*Flush*, Wrought, B. K. ..... 40&5%
*Spring—*
Wrought ..... 75&10%
" Brass ..... 75&10%
*Square—*
Cast ..... 40%
Wrought ..... 60-10&10%

### BORERS.

*Angular*, Miller's Falls, per doz $12 75
*Bung*, Common Ring with Handle—
Inches ..... 1½ 1¾ 2
Per doz ..... $6 00 6 90 8 1

BORERS—CONTINUED.

Enterprise Mfg. Co., No. 1 List $1.50; No. 2, $2.00 each....25-10&5%

BOXES.

*Mail*, No..... 5 10 20
Per doz..... $3 65 10 50 12 00
*Miter*—
New Langdon.....15&5%
Olmsted's .....15%
Stanley's.....30%
Seavey's .....per doz 8 00
*Twine*, Nos... 20 30 25 121
Per doz ....$1 50

BRACES.

Common Ball.....$1 25@1 45
Barbers' Pattern .....50&10%
Fray's Gen. Spofford's.....50&10%
" No. 66 to 146.....50&10&7½%
P. S. & W. Co.'s Peck's Adjustable.....50-10&5%

BRACKETS.

*Hay-Rack*, Wenzelmann's No. 1, $12.60; No. 2, $13.20 per doz.
*Shelf*—
Cast Iron, Plain .....50&10%
Stanley's Wrought Steel.....
.....70-10&2½%
Wire.....75-10&5%

BROILERS.

Wire .....70&10%
Crown, Self-Basting, No.80..doz. $2 90

BUCKETS.

*Pump Rubber*—
Wychoff.....per gr. $4 75
Cooper..... " 5 50
Champion ..... " 7 50
Victor ..... " 9 50
Star..... " 5 00
IXL..... " 6 75
*Well*—
Galv'd Qts..... 10 12 14
Per doz .....$2 75 3 00 3 25
Wooden, top ear, plain, per doz 3 60
" " swivel . " 4 85
" side-strap, plain " 3 70
" " swivel " 5 00

BUCKS, SAW.

Folding .....per doz $2 10

BURS, RIVETING.

Copper Burs Only.....35-10&5%
Tinners' Iron Burs Only.....70%

BUTTS.

*Cast-Iron*.....65&10%
*Wrought Brass*.....20%
*Wrought Steel Bright*—
Nos. 800, 804, 808, 810, 814 and 834
.....75&10%
Nos. 838, 840 and 842 .....75-10&10%
Nos. 822 and 828.....80-20&10%
*Wrought Steel, Japanned*—
Nos. 731 and 737.....70&10&10%

CALIPERS.

Double .....40&10%
Inside and Outside.....40&10%
Wing.....40&5%

CALKS.

*Logger's Boot*,(Lufkin R. Co's.)
.....per M $3 65
*Toe*.
Shoenberger.....per lb. 5c
Bessemer ..... " 5½c
American ..... " 7½c
Swedes..... " 8½c

CANS.

*Cheese Factory Can Stock*—
Gallons.... 15 20 30 40
Per set....$3 40 $3 45 $3 70 $4 90
*Milk*
Elgin Pattern,
Nos..... .808, 810, 88.
Gal. ..... 8 10 8
per doz...$21.50 $24.50 $22.10
New Elgin Pattern,
Nos. 108 108 110
Gal. each. 5 8 10
Per doz., $16.75 $18.50 $19.85
Iowa Pattern.
Nos. 608 610
Gal. 8 10
Per doz $20.50 $21.50
New York Pattern,
Nos. 908, 910,
Gal. each, 8 10
Per doz. $23.15 $26.95
*Oil*—
1 Gal. glass, Daisy....per doz. $2 35
1 " cushioned " 3 90
Star, gals..... 1 2 3
Per doz..... $1 35 $2 00 $3 90
Per doz.
Champion Faucet, 5 gallon...$ 5 65
Sterling Tilting....5 " ... 8 25
"High C" Pump...5 " ... 9 25
Eureka Pump.....5 " ... 12 25
Wood Jacket.....50-10&5%

CAPS—GUN.

See Ammunition.

CARRIERS.

*Hay*—
Myers' Imperial.....each $3 50
" Clover Leaf..... " 3 50

CARTRIDGES.

See Ammunition.

CASTERS.

*Acme*—Ball Bearing.....35%
*Bed*.....60, 10&5%
*Common Plate*—
Brass wheel.....60&10%
Iron and porcelain wheel.60, 10&5%
*Philadelphia Plate*.....70&5%
*Martin's*.....40-10&5%
*Payson's*.....70&10%
*Tucker's*—Wood &Iron wheel..25&5%
" Rubber wheel.....15%

CATCHERS—GRASS

Lieder's No. 1..... ...per doz, $6 25
Eureka..... ..... " 4 25
deal No. 4..... 50

CHAIN AND CHAINS.

*Breast Chains*—
Doubleslack.....doz. pairs $5 75
With Covert snaps " 5 00
" slide..... " 3 25
Without slide..... " 2 85
*Bright Ox Chains*—
5-16in. $5 65: ⅜in. $5 40 per 100 lbs.
*Cable Coil Chain*—
Inch..... 3-16 ¼ 5-16 ⅜
Per 100 lbs....$8 90 $6 60 $5 30 $4 40
Inch ..... 7-16 ½ ⅝ ¾
Per 100 lbs....$4 20 $4 00 $3 85 $3 75
Inch ..... ⅞ 1 1¼
Per 100 lbs.... $3 65 $3 65 $3 65
*Cable Log Chain*—Advance 35c per 100 lbs. on Cable Coil.
*Cow Tie Chains*—
American 3 toggle..... 50%
" toggle and snap... 50%
" open and closed ring..... 50%
*Halter Chains*—
American, new list.....33⅓%
German.....60-10&5%
Niagara, new list.....40&5
Triumph " .....30%
*Jack Chain*—
Brass.....60%
Iron.....60%
*Picture Chains*—
Light Brass, 3 ft.....per doz. 63c
Heavy " 3 " ..... " 75c
*Pump Chain*—Galvanized per 100 lbs.....$4 75
*Safety Chain*—Brass.....60&10%
*Stretcher Chains*—
5-16 in., $8.50—⅜ in., $7.75 per 100 lbs.
*Tie-Out Chains*—Browns.....70&10%
*Trace Chains*—Western Standard—
6½— 6-2.....per pair 27c
6½— 8-2..... " 31c
6½— 8-3..... " 30c
6½—10-2..... " 38c
7 —8-2..... " 35c
7 —10-2..... " 39.
7 —10-1..... " 44c
7 —10-0..... " 55c
Add 2c per pair for Hooks.
" 3c " for Twist Link
*Wagon Stay Chains*—
Inch ¼ 5-16 ⅜
Per 100 lbs. $6.50 $6.00 $5.50

CHALK-CARPENTERS'.

Blue.....per gross 58c
Red..... " 45c
White..... " 28c
Common White Sch'l Crayon..... " 5½c

CHARCOAL.

In barrels .....per bu. 21c

CHECKS-DOOR.

Blount ..... 30%
Blum-Jap'd, $6.25; Brzd., doz... $7.00
Columbia.....50, 10&5%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

*Box*—
Inches..... 10 12 14
Round....per doz. $2.10 $2.25 $2.75
Flat.....per doz. 2.85 3.60 4.20
*Cold*—
Good quality.....per lb. 12@ 20c
U.S.A., extra quality..per lb. 28c
*Socket, Framing and Firmer*—
Barton's..... 20%
P. S. & W. Co's..... 70%
For beveled back, add..per doz..... 60c
*Tanged, Firmer*—
P. S. & W. Co's.....35&5%
With Handles add... per doz. 60c
*Choppers, Enterprise Meat*—
No. 12.....$2 75
No. 22..... 4 50

CHUCKS-DRILL.

Standard Tool Co.'s .....40%
Goodell's, for Goodell's Screw Drivers.....per doz. $6.25
Yankee, for Yankee Screw Drivers..... 5.00

CHURNS.

Anti-Bent Wood, Gal.. 5 7 10
Each ..... $3.90 4.15 4.40
Belle, Barrel..... 70&5%
Common Dash, Gal.... 4 5 6
Per doz..... $7.75 8.50 10.50
Hero.....70%
Union, Gal..... 5 7 10
Each ..... $3.65 3.90 4.75

CLAMPS

*Adjustable*—Martin's ..... 40%
*Carpenters'*—Steel Bar..... 20%
*Carriage Makers'*—P. S. & W. Co.'s.....40, 10&5%
*Hose*—
Sherman's, brass, ¾ in., .....per doz. 32c
Double, brass, ¾ in...per doz. 65c
*Saw Filers*—
Disston's list, $30.00..... 30%
Stearn's, No. 0, $3.50, No. 1, $11.50, No. 3, $5.50 doz.
Wentworth's..... 40%

CLAWS-TACK.

Cast, wood hdle...per doz., 45@ 60c
Forged steel, wood handle .....per doz. 80c
Solid Steel.....per doz. $1.60
Giant.....per doz. .60

CLEANERS.

*Drain*—
Iwan's Adjustable.....50%
Iwan's Stationary.....40%
*Pot*—Wire.....per doz. $0.45
*Side-Walk*—Steel.....per doz. 3.15
XLCR.....65&5%

CLEAVERS.

*Family*—Ajax, In..... 6 7 8
Per doz ..... $5.50 5.75 6.25

CLEVISES.

Malleable.....per lb. 3½c

CLIPPERS.

Bolt..... $1.90@4.75

CLIPS.

*Axle*.....65&5%
*Damper*—
Standard .....per doz. $0.70
Troy ..... " .38
*Hame*..... " .30

CLOTH.

*Emery*—
Ajax.....50&10%
B. & A.....50%
*Hardware Wire*—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1.85
9 to 12 " " " " 2.15
2 to 8 " galv, " " 2.70
7 and 8 " " " " 3.25
An extra charge is made for 50 ft. lengths, and a still further advance for smaller pieces.
*Screen Wire*—
12 mesh, painted, per 100 sq. ft. $1.30
14 " " " " 1.85

COFFEE MILLS.

Enter. Mfg. Co., list Jan 17, '93...35%
Parker's.....50%
Arcade.....60&10%

COLLARS--STOVE PIPE.

| Inches | 5 | 6 | 7 |
|---|---|---|---|
| *Plain Tin*....per gr. | $2.50 | $2.80 | $3.75 |
| *Japanned Tin*, " | 3.90 | 4.20 | 5.40 |
| *Lacquered Brass*" | 3.30 | 3.60 | 4.80 |

COMBS--CURRY.

| Nos. | 000 | 20 | 321 | 330 | 417 | 416 |
|---|---|---|---|---|---|---|
| Per doz. | $0.32 | .80 | 1.00 | .95 | .80 | 1.00 |
| Nos. | 531 | 533 | 530 | 535 | 545 | 390 |
| Per doz. | $0.96 | 1.20 | 1.10 | 1.65 | 1.40 | 1.20 |

COMPASSES.

*Carpenter's*..... 70%
*Pencil*—Faber's.....per doz. $1.00

COOLERS--WATER.

*Galvanized Lined*—Lever Faucet.

| Gal. | 2 | 3 | 4 | 6 | 8 |
|---|---|---|---|---|---|
| Each | $1.35 | 1.65 | 2.00 | 2.35 | 2.95 |

*Galvanized Lined*—Telegraph Faucet

| Gal. | 2 | 3 | 4 | 6 | 8 | 10 | 15 |
|---|---|---|---|---|---|---|---|
| Ea. | $1.65 | 2.00 | 2.25 | 2.65 | 3.30 | 3.65 | 4.90 |

*Porcelain Lined*—

| Gal. | 3 | 4 | 5 | 6 | 7 | 8 | 10 |
|---|---|---|---|---|---|---|---|
| Ea. | $4.50 | 5.75 | 7.00 | 7.75 | 8.60 | 10.40 | 12.25 |

COPPER—SEE METALS.

COPPERS.

*Soldering*—1 to 2 lb.....per lb. 25@29c
3 lb. and larger..... " 23c

CORD.

*Picture*—White Wire—List October 1900.....80&10%
*Sash*—
Baltic Braided Flax...per lb. 22 c
India Hemp, cable laid " 13 c
" " hawser " " 12 c
" " plain " " 13½c
Italian " cable " " 21½c
Russian " " " " 17 c
Samson, white " 31½c
" spot " 30½c
SilverLake, white 7-32 in., 31 c
" " " 8-32 in., 31 c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....50%
Williamson's Forged Worm.....50%

COTTERS--SPRING.

All sizes—new list..... 85&20%

COUPLINGS--HOSE.

Brass .....per doz. $1.00
Brass Plated..... " 85

COVERS, WAGON--SEE TENTS.

CRADLES--GRAIN.

Morgan's Grapevine ..per doz. $22 25

CRAYONS--SEE CHALK.

CROW BARS.

Pinch or Wedge Point, per 100 lbs ..... $3 40

CUTTERS.

*Meat*—
Enterprise Nos. 5, 10, 12, 22, 32, and 42..... 25%
No. 100, list, $18.00.....40&10%
Nos. 2 and 4..... 35%
Ideal.....per doz. $9.75
Universal....No. 1 2 3
Per doz.....$10.75 $13.00 $18.00
*Pipe*-Stanwoods No. 1 2 3
Each.....$ .85 1.50 4.00
*Slaw and Crout*—
3-knife Crout.....per doz. $9.75
1 " Slaw..... " 1.65
2 " " ..... " 2.25
*Washer*..... " 7.75

DAMPERS—STOVE PIPE.

Standard.....50&10%
American.....40&10%

DIES--STOCKS AND

Discount.....40&10%

DIGGERS.

*Post Hole*—
Acme.....per doz, $8.75
Atlas.....per doz. 7.75
Eagle .....per doz. 6 50
Eureka.....per doz. 6.25
Hercules.....per doz. 9.75
Iwan's Split Handle..per doz. $8.00
Iwan's Perfection....per doz. 8.00
Ryan's .....per doz. 17.00

DIVIDERS.

Wing ..... 70%
Extension Wing..... 35&5%

DIGGERS—POST HOLE.

Atlas..... .....per doz. $8.50
Eagle..... " 6.25
Eureka..... " 6.50
Hercules ..... " 10.25
Ryan's..... " 17.00
See also Augers—Post Hole.

DOORS--SCREEN.

⅞ in. 4 panel painted per doz. $ 6.85
1⅛ " " " " 7.50
1⅛ in. 3 panel natural pine, fancy.....per doz.. 11.50

DOOR HANGERS—BARN.

Single Flange, D. B. Rail, .....per 100 ft. 1 60
Novelty Check Back, ..... 2 in 4 in 5 in 6 in
Per doz. pairs. $2.60 $3.90 $4.95 $6.25

DRILLS.

*Bit Stock*.....60% &65&5%
*Blacksmith's Twist*.....60%
*Breast*—
Common.....each, $2.25
Millers' Falls..... " 2.10
*Hand*—
Goodell's Automatic--per doz.
No. 01 No. 02 No. 3 No 20
$7.75 $12.50 $14.25 $11.00
Goodell's Single Gear per doz. $16.00
Millers' Falls " " " 12.50
" " Double " " 15.00
*Reciprocating*—
Goodells'.....per doz. $17 00
*Bit Stock*.
Standard List....60&5%@60%@10%

DRIVERS--SCREW.

Hurwood .....40&10%
Standard.....65&10%
Ajax.....70&5%
Champion.....50%
" Pattern.....75&5%
Clark's Interchangeable.. .... 33⅓%
Edison.....60%
Reed's Lightning.....50%
Goodell's Spiral.....50&10&5%
Yankee Ratchet.....50%
" " Spiral.....50&10&5%

ELBOWS.

*Conductor*.....60%
*Adjustable Stove*—In. 5 6 7
Smooth....per doz. $0.95 0.95 1.40
Plan'd..... " 2.10 2.25 3.00
*Corrugated Stove*—In. 5 6 7
Smooth.....per doz. $0.95 .95 1.40
Pol'd..... " 1.70 1.75 2.60
Plan'd..... " 2.60 2.85 3.50
*Four-Piece Stove*—In. 5 6 7
Smooth....per doz. $0.57 .60 .93
Pol'd..... " 1.00 1.05 1.50
Plan'd..... " 1.50 1.70 2.60

EMERY--TURKISH.

Size .....5-lb. pkgs. ½ kegs, kegs.
No. 60 to 150, ℔ lb. 6½c 4¾c 4½c
Flour.... . " 5½c 3¾c 3½c

ENAMEL—IRON.

English, ½-pt. cans...per doz. $1.50
Nubian, " " ... " 1.80
O. V. B., " " ... " 1.25
Peerless ..... 1 50

EXTRACTORS--PIG.

See Forceps, Pig.

EYES.

*Bright Wire Screw*—See Goods, B. W.
*Drifting Pick* .....60&10%
*Hooks and*—
Brass.....60&5%
Iron .....65&10%

FASTENERS, STORM SASH.

Moore's.....per doz. $0 80
Schroeder's..... " 1 50
Sensible..... " 1 10

FASTENERS, BLIND.

Zimmerman's.....Net

FAUCETS.

*Petroleum*, New List .....70%
Cork Lined.....60%
Metal Key.....65&5%
See also Cocks.

FILES AND RASPS

Black Diamond.....70&10%
Disston's .....75&10%

FILTERS.

Improved Natural Stone.$2 50@13 50
Subject to large discounts.

FORCEPS—PIG

Barber's.....per do $7 25
Superior..... 4 75
Whisson's Imp ..... 6 00

FORKS

*Barley*—
Steel.....60&20%
Wood, 4 tines, $5.50; 5 tines, $6.50 doz
*Coal* .....40%
*Coke* .....40%
*Cottonseed* .....40%
*Hay*—
Diamond, 2 tine.....50, 10&5%
" 3 " .....60&5%
" 4 " .....60½&10%
Golden Eagle, 2 tine .....60½&10%
" " 4 " .....60&10%
Digging..... .....60&10%
Scoop.....35%

SAWS—CONTINUED.

*Hand and Rip.*
Brown's ..... 30&7½%
Disston's No. 7 ..... 30&7½%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 ..... 25&7½%
Gorham's Comb ..... 30&7½%
Keystone ..... 30&7½%
Sam Sickles', hand ... per doz. $4 25
"I Will," hand ..... " 5 75
"I Will," rip ..... " 6 75
"U. S. A." hand ..... " 12 25
"U. S. A." rip ..... " 14 25
*Keyhole*—Disston's ..... 25&7½%
*Kitchen*
Sterling ..... 25%
*One Man* ..... 50%
*Panel.*
Brown's ..... 30&7½%
Disston's No. 7 ..... 30&7½%
Disston's D100 ..... 25&2½%
"I Will" ..... 40%
"U. S. A." ..... 40&10&5%
*Pruning.*
Avery's Duplex ..... 25&7½%
Brown's ..... 25&7½%
Disston's ..... 25&7½%
*Wood.*
Common ..... per doz. $4 50
Handy ..... " 7 50
Happy Medium ..... " 7 00
Wood Sawyers' Delight " 8 25

SAW SETS.

Common Lever ..... per doz. $ 1.20
Stillman's Lever ..... per doz. 1.30
Leach's ..... per doz. 5.00
Nash's ..... per doz. 4.20
Monarch ..... per doz. 6.50
Aikin's Pattern ..... per doz. 3.50

SAW FRAMES.

Common, plain ..... per doz. $1 20
" painted ..... " 1 60
*Counter.* SCALES.
Fairbank's Standard ..... 30, 10&5%
Hatch's ..... per doz. $21 50
Little Detective, 1 2 3
Each ..... $2 00 2 25 2 10
No. 1 Tea ..... per doz. 7 75
Union Platform ..... each 2 40
Pelouze ..... 20%
Turnbull's Market ..... 50%
*Platform.*
Common, 600 800 1000
Each ..... $8 20 8 75 9 50
Chicago Standard ..... 30 to 33⅓%
Fairbank's Standard ..... 40%
Osgood ..... 50%

SCOOPS.

*Grain.*
½ Bu. "Hercules," per doz. .. $13 75
1 " " " " ... 15 50

*Box.* SCRAPERS.

Stanley's Adjustable, per doz. $3 60
Triangular ..... " 2 50
*Cabinet.*
Ajax ..... per doz. $2 25
Cast Steel ..... " 65c@75c
Stanley's No. 80 ..... " $8 40
*Road.*
Cubic ft. 7 5 3
Without runners, ea. $4.35 4.10 3.85
With runners .... " 4.60 4.35 4.10

*Bench.* SCREWS.

Iron ..... 40&10%
Wood, white maple .. per doz. $3 60
*Hand*—Wood ..... 20%
*Hand Rail* ..... 70&10%
*Jack* ..... 75&5%
*Lag or Coach* ..... 80%
*Saw*—Centennial.
Nos. 1 2 3 4
Per doz. ..... 22c 25c 32c 35c
*Wood.*
F. H. Bright Steel .... 87½, 10&10%
R. H. Blued Steel ..... 85&5%
F. H Jap'd Steel ..... 82½&5%
F. H. Brass ..... 85&5%
R. H. Brass ..... 80&5%
R. H. Nickel Plated ..... 75%

SCYTHES.

Clipper, grain ..... per doz. .. $7 75
Dutchman, grass ..... " .. 5 25
Golden Clipper, grass. " .. 5 00
U. S. A., grass ..... " .. 5 75
*Nail.* SETS.
Round, common ..... per doz. .. $0 33
Square " ..... " .. 42
Octagon " ..... " .. 33
Square, Buck Bros. .. " .. 1 25
Cup Point, knurled, pr doz. 70c@90c
*Steel.*
Farmers' ..... per doz. .. $1 45
Tinners' ..... 50&10%
*Saw.*
Aiken's Pattern ..... per doz. .. $2 50
Common Lever ..... " .. 1 20
Disston's Monarch ..... " .. 6 50
" X Cut ..... " .. 11 75
German ..... " .. 1 35
Morrill's Old Style ..... " .. 5 00
" Pattern ..... " .. 4 50
Leach's ..... " .. 4 80
Nash's Hand ..... " .. 4 00
" X Cut ..... " .. 5 50
Stillman's Lever ..... " .. 1 30
" X Cut ..... " .. 2 50

SHARPENERS—SKATE.

Diamond ..... per doz. .. $1 60

SHAVES—SPOKE.

Iron ..... per doz. .. $1 35@$2 75
Wood ..... " .. 3 75@ 4 75
Bailey's ..... 50&5%
Goodell's ..... 15%
Stanley's Universal ..... 30&5%

*Pruning.* SHEARS.

Buckeye, No. 1 ..... per doz. .. $6 75
" No. 2 ..... " .. 8 40
California Pat., 9 in. .. " .. 4 25
" 10 in. .. " .. 5 00
Draw Cut, No. 3 ..... " .. 14 75
" No. 4 ..... " .. 17 50
Henry's Pat. 0 01 14 012
Per doz. ... $1.90 $2.50 $2.15 $2.50
Star ..... per doz. .. $4 75
*Sheep*—No. BBA.
6 in. 6½ in. 7 in.
Reg. Grip .. $11.25 $11.50 $12.00
Nar. Grip .. 11.75 12.00 13.00 doz.
*Tinners'*—See Snips.

SHEAVES—SLIDING DOOR.

In. 3 4 5
*Common* .. Per set .. $0.42 $0.48 $0.70
*Hatfield's.* " .. .75 1.00 1.50

SHELLERS—CORN.

Union ..... per doz. .. $7 25

SHOT—See Ammunition.

SHOVELS AND SPADES.

*Drain.*
Iwan's Perfection ..... 50%
*Railroad, Etc.*
Gold Hibbard's ..... per doz. .. $9 25
C. H. Conovers's .... " .. 7 75
Beckwith's ..... " .. 7 75
Hickory ..... " .. 6 25
Greenleaf's ..... " .. 5 75
Columbus ..... " .. 5 00
Ames' new list ..... Discount 12½%
*Coal.*
No. 2 Ajax ..... per doz. .. $5 25
No. 4 Golds ..... " .. 6 25
Ames' new list ..... Discount 12½%

SIEVES.

Champion ..... per doz. $ .90
Hunter's Genuine ..... " 1.10
" Imitation ..... " .90
Tin Rim, 16 mesh plain wire 1.35
Wood " 16 mesh plain wire .80

*Cast Iron.* SINKS.

Painted ..... 1"&5%
Enameled, White ..... 60-10&10%
*Wrought Steel.*
Painted, new list ..... 40-10&5%

SLEDGES—See Hammers.

SNAPS—HARNESS.

Champion ..... 85%
German Pattern ..... 30&5%
Judd's Pattern ..... 60&10%@70%

SNATHS.

Double Ring, Bush .... per doz. .. $6 75
Patent Loop " .... " .. 7 20
" " Grass .... " .. 6 50

SNIPS—TINNERS'.

Hernisch's ..... 40&5%
National ..... 40&5%
P. S. & W. Co.'s ..... 35&5%

SOLDER.

See Metals, Column 1

SPRINGS—DOOR.

*Perfect.* Nos. 1 2 3 4
Per doz. ..... 32c 38c 45c 48c
*Reliance*, Light $1.40, Heavy $2.20 doz.
*Star* ..... " .90, " 1.30 "
Torrey's ..... per doz. .. $1 25
Warner's— No. 11 No. 13
Per doz. ..... 70c $1 30

SQUARES

*Steel and Iron* ..... 70%
(Add for Bluing, $2.50 per doz., net.)
*Mitre*—Stanley's No. 12 ..... 40%
*Try.*
Stanley's No. 20, new list ... 30&10%
" Nos. 13 and 14 ..... 40%
*Try and Bevel*—Stanley's ..... 40&5%
*Try and Miter.*
Fox's ..... per doz. .. $7 25
Winterbottom's ..... 50%

SQUEEZERS—LEMON.

Common Wood ..... per doz. .. $0 70
Porcelain Lined, wood. " .. 1 30
Boss, tinned iron ..... " .. 82
Pearl, nickel plated ... " .. 1 20
Star " " ..... " .. 1 60
Little Giant, tin'd iron " .. 4 25
King ..... " .. 2 50
Drum ..... " .. 4 75

STAPLES.

*Blind*—Barbed ..... per lb. 9½@10c
*Butter Tub* ..... " 8@8½c
*Fence*, less than carload.
Polished ..... per 100 lb. $2 40
Galvanized ..... " 2 70
*Netting*—Galvanized ..... per keg 3 60
*Wrought.*
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples ..... 35-10&5%
Extra heavy ..... 75&10%

STEELYARDS.

Discount 25%

*Axe.* STONES.

Hindostan ..... per lb. 5½@7c
More Grit ..... " 9½c
Washita ..... " 16½c
*Emery* ..... 60%@60&5%
*Oil*—Unmounted.
Arkansas Hard ..... per lb. $2 00
Arkansas Soft ..... " 1 15
Hindostan ..... " 6½@6½
*Oil.*—Unmounted.
Lily White ..... per lb 43c
Queer Creek ..... " 14½c

Ouachita ..... " 36c
Washita ..... " 25c
*Sythe*—Black Diamond, per gro. $7 75
Clear Grit ..... " 4 25
Gem Corundum ..... " 7 50
Green Mountain ..... " 4 20
La Moille ..... " 7 00
White Mountain ..... per gro. 6 50
Willoughby Lake .... " 6 25
Red End ..... " 3 15

STOPS—BENCH.

Hotchkiss' ..... per doz. $3 60

STOPPERS—FLUE.

Common ..... per doz. 42c
Crown ..... " 48c
Gem, flat, painted ..... " 72c
Gem, cor'd, decorated .... " 88c
Kirch's ..... " $1 20
Peerless ..... " 72c
Skinner's Common Sense " 95c

STRAPS.

*Scoop* ..... per doz. prs. $1 80
*Skate* ..... " " 60@70c
*Carpet.* STRETCHERS.
Bullard's ..... per doz. $3 90
Excelsior ..... " 6 00
Malleable Iron ..... " 70
Perfection ..... " 6 00
King ..... " 4 50
*Wire.*
N. S. Elwood's ..... per doz. $5 75
O. S. Elwood's ..... " 5 75
Little Giant ..... " 5 50
Star Lever ..... " 6 25
Star Tackle Block .... " 9 25
Warner's ..... " 6 25

SWIVELS.

Malleable Iron ..... per lb. 5½c
Wrought Steel ..... per gro. $4 50

TACKS.

American Cut ..... 90&5%
American Wire ..... 85&25&10%
Bill Posters Cut ..... 90&40%
Blued Carpet ..... 90&15%
Tinned Carpet ..... 90&15%
Gimp ..... 90&30&10%
Upholsters' Cut ..... 90&40&5%
Upholsters' Wire ..... 90&25%
Double Pointed ..... 90&20%
Copper ..... per lb 27c
Canvas Nails ..... 75&5%
Clout Nails ..... 75&10&5%
Hungarian Nails ..... 80&5%

TAPES—MEASURING.

Asses' Skin ..... 40&10%
Bend Leather ..... 25%
Patent Leather ..... 25%
Lufkin's Steel ..... 30%
Lufkins Metallic ..... 30%

TENTS AND PAULINS.

Wall Tents ..... 50&5%
Wedge Tents ..... 45%
Paulins ..... 45%
Wagon Covers ..... 45%

THERMOMETERS.

Tin Case ..... per doz., 95c@$1 25
Wood Back ..... " $1 75@ 9 00
Glass ..... " 15 50

*Bale.* TIES.

Single Loop ..... 20%
All other kinds ..... 70%
*Cow*—See "Chains."

TONGS.

*Crimping*—Packham's ... per pair 50c
*Gutter*—P. S. & W. Co.'s ..... 15&10%
*Pipe*—Brown's ..... 50%
*Roofing*—P. S. & W. Co.'s .... 15&10%

TOOLS—SAW.

Atkin's Dexter ..... per doz. $4 25
Atkin's Excelsior ..... " 6 25
Disston's Universal ..... 40%
McDonald's ..... 33⅓%
*Game.* TRAPS.
Newhouse ..... 50%
New Victor ..... 75-10%
*Mole*—Reddicks ..... per doz. $5 75
*Mouse and Rat.*
Wood Choker ..... per hole 11c
Tin Choker ..... " 9c
Delusion ..... per doz. 85c
Imitation Sight, Rat .. " 80c
Marty Rat ..... " $6 75
Marty Rat, Imitation .. " 3 75
Marty Mouse ..... " 3 15
Marty Mouse, Imitation " 2 10
French Automatic ..... each $3 60
*Fly.*
Balloon ..... per doz. $1 10
Harper's ..... " 1 25
*Brick.* TROWELS.
Standard ..... 30%
Brade's ..... 10&7½%
Disston's ..... 30%
Rose's ..... 25%
*Plasterers'.*
Standard ..... 33⅓%
Disston's ..... 30%
W. & McP ..... 25%

TRUCKS.

Bags ..... each $1 70
Handy ..... " 1 50
Warehouse ..... 60&5%

| | No. 1 | 2 | 3 |
|---|---|---|---|
| Half Ironed ..... | $2.60 | $3.40 | $5.00 |
| Full Ironed ..... | 3.90 | 5.75 | 6.75 |

TUBS-WASH.

| | No. 3 | 2 | 1 | Ex. large |
|---|---|---|---|---|
| *Standard*, per doz. | $5.25 | 6.25 | 7.25 | 9.75 |
| *Dowel* .... " | 5.60 | 6.60 | 7.50 | 10.00 |
| *Cedar* .... " | 6.50 | 7.50 | 8.25 | |
| *Indurated.* " | 7.20 | 7.95 | 9.45 | 11.70 |

| *Galvanized.* | No. 1 | 2 | 3 |
|---|---|---|---|
| Per doz ..... | $5.25 | 5.75 | 6.50 |

TWINE. per lb.

3-ply Cotton Wrapping ..... 23c
4 " " " ..... 24c
4 " Cotton Extra Wrapping ..... 29c

3 " " " Hvy. Wrap'g. 27c
4 " " Wrapping on tubes. 25c
4 " " " cones. 24c
4 " " " " " 24c
India Hemp, ¼-lb. balls ..... 18c
" " ½-lb. " ..... 17c
" " ¼-lb. " ... doz., 65c
2-ply " ¼-lb. " ..... 11½c
3 " " ½-lb. " ..... 11½c
Jute Wrapping, ¼-lb. balls ..... 11½c
Jute Wool, 1-lb. balls ..... 6c
Staging, ¼-lb. ball, size 21 ..... 25c
" ¼-lb. ball, " 24 ..... 24c
" ¼-lb. ball, " 27 ..... 34c
Bagging, ¼-lb. ball ..... 22c
3-ply "B" in hanks ..... 19c
4 " "B" " " ..... 19c
3 " "A" " " ..... 29c
3 " Silver Finish, in hanks .... 39c
*Fodder or Lath.*
130-strand ..... 8c
200-strand ..... 8½c

VISES.

Bonney's ..... 30%
Cheney's ..... 30%
Parker's Oval Slide ..... 50@50&10%
Parker's Parallel ..... 15@20%
Parker's Victor ..... 10%
Parker's Combination ..... 50&10%
Solid Box ..... 60&5%
Adam's Mechanics' ..... each $2 05
Williamson Universal ..... 20%

WARE.

*Cast-Iron Hollow.*
Ground ..... 40, 10&2½%
Unground ..... 50, 10&2½%
Extra Finished ..... 40&10%
White Enameled ..... 40&5%
Maslin Kettles ..... 65%
*Enameled.*
Cherry Blossom ..... 33⅓%

WASHERS.

Standard O. G. cast iron, per lb. .. 2½c
Wrought Iron in bulk per lb.:

| In. ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 |
|---|---|---|---|---|---|---|
| 7½c | 5½c | 4c | 3½c | 3½c | 3½c | 3½c |

Wrought steel in 5 lb. boxes, per lb.:

| In. ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 |
|---|---|---|---|---|---|---|
| 8¾c | 6½c | 5c | 4¾c | 4½c | 4½c | 4½c |

WEDGES.

*Ax* ..... per doz. .... 30c
*Galling* ..... per lb. .. 10½c
*Saw* ..... " .. 8½c
*Wood Choppers.*
Lake Superior and Oregon, Pat ..... per lb. .. 9½c
Reg. Pattern, Steel ... " .08-½c
Truckee " " ... " .08-½c

WEIGHTS.

*Hitching* ..... per lb. .. 2½c
*Sash*—F.O.B. Chicago .. pr ton .. $21.00

WHEEL BARROWS.

Common Railroad .... per doz. .. $16 00
Heavy " .... " .. 19 50
Railroad, ball bearing " .. 19 00
Santiago Steel Tray .. " .. 26 50
No. 04 Steel Dirt ... " .. 47 00
No. 04½ " " ... " .. 50 00

WHEELS.

*Corundum* ..... 70&10&5
*Emery* ..... 75&5%
*Wall.* In. 8 10 12 14
Per doz. .... $1.90 $2.20 $3.00 $5.50

WIRE.

*Barbed.* Painted. Galv'd.
Carloads ... pr 100 lbs .. $2.45 $3.75
Less than car " .. 2.55 3.85
*Brass.*
In coils ..... 20%
In 1 lb. spools, new list .... 50&10%
*Broom*—Tinned ..... 50&10&10%
*Cable*—Same price as Barbed Wire.
*Copper.*
In coils ..... 30&10% 33⅓%
In 1 lb. spools, new list .... 50&10%
*Fence*—Smooth.
Nos. 6 to 9, Annealed, pr 100 lbs. $2.15
Nos. 6 to 9, Galv'd ... " 2.45
*Hair*—New list ..... 50&10%
*Market.*
Bright, full bdles ..... 70&10%
Bright, broken bdles ..... 70%
Coppered, full bdles ..... 70%
Coppered, broken bdles .... 65&10%
Tinned, full bdles ..... 70&5%
Tinned, broken bdles ..... 65&10%
*Picture.*—In coils ..... 80% @80&10%
In 5 lb. spools ..... per lb. .. 25c
*Plain*—Small lots ..... $2.00
Car lots ..... 1.95
Small spools 5c per hundred higher

WRENCHES.

Acme Standard ..... 60%
Alligator ..... 65&5%
Always Ready ..... 40&10&5%
Bemis & Call ..... 40%
Coe's Standard ..... 40&10%
Girard's Agricultural ..... 30%
P. S. & W. Co.'s Agricultural .... 75%
" " " Knife H'dle .. 50&5%
Wescott's "S" ..... 33⅓%
Malleable "S" ..... per lb. 05½c
Malleable ..... per lb. 05½c
Stillson Pipe ..... 60&5%
Trimo " ..... 60%
*Clothes.* WRINGERS.
No. 22, Guarantee ..... pr doz. $27 00
No. 110, Guarantee .... " 27 50
No. 150, Sunshine ..... " 21 50
No. 130, Mendota ..... " 19 50
No. 12, Success ..... " 18 50
Blue Bell, Ball Bear'g. " 25 50
No. D 110, Domestic ... " 24 50
No. E 350, Empress ... " 27 50
No. 122, Bicycle Ball-bearing ..... " 26 50
No. 122, Swan ..... " 26 50

# Wants and Sales.

**For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.**

## BUSINESS CHANCES.

**PATENTS**

**HUBERT E. PECK,** 623 F St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

For Sale—One-half share in a hardware business on reasonable terms. References required. Address "Share," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 23

For Sale—One of the best hardware stores, tinware, ironware, implement, buggy and harness stores in central Illinois; located in county seat; population 7,000; interurban electric line runs out of city; State Normal located in city; city and country highly improved. Stock will invoice $9,000; will take $5,000 cash; balance in good bankable notes. This is a snap for someone. Reason for selling, other business needs our attention. Ray Hardware Co., Charleston, Ill. 23

For Sale—A clean stock of hardware of about $3,800 in a nice Iowa town of 3,500, in best part of the state. Crops are good; only one other hardware here; best of reasons for wanting to sell. Address "Lock Box 685," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 23

For Sale—50c on the dollar, about 100 assorted stoves (steel ranges, hard and soft coal and wood heaters). Damaged slightly by smoke and water, but have been cleaned and polished ready for sale. Will sell any amount or all to one party. Name and number of stoves, also manufacturers' name and cost furnished on application to Box 464, Two Harbors, Minn. 22

For Sale—For cash, a good clean stock of hardware and tinner's tools in northern Wisconsin city; invoice about $6,000; good reason for selling; price right. Address "Wisconsin," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 22

For Sale—Clean stock of hardware and implements in southern Minnesota. The only hardware and implement house in a town of 350, doing a $35,000 business annually. Will sell with or without building. Traders need not answer. Address "Clean Stock," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 22

For Sale—An old-established good paying hardware store on West Madison street, Chicago. A good chance for a man who understands the business. About $4,000. Good reason for selling. Address "Portland," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 22

For Sale—A clean up-to-date stock of hardware, tinner's tools in connection, with a well-established trade; one of the best locations in the state; invoice about $3,500; good reason for selling. Address Dixon & Conway, Elroy, Wis. 22

For Sale—Tin and plumbing shop in Wisconsin; doing good business. Town of 3,000. To be sold cheap if taken soon. Address "Change," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 21

For Sale—A clean stock of hardware, with good established trade, in northern Nebraska. Invoice about $1,800.00. Good live growing town; a splendid chance. Address Box "C. E.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 21

## TINNERS' TOOLS.

Wanted—One full set of second-hand tools for making steel ranges; must be in good condition and cheap. Address "T. & F.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 21

For Sale—Tinner's stock, tools and shop; best town of size in state; only shop; very large territory with more work than I can do. Cash. David Curtis, Lone Tree, Iowa. 21

For Sale—A 25-horse power steel horizontal boiler. A 12-horse power engine with pipe fittings. A blacksmith forge with blower and tools. Shafting, pulleys, belting. All practically new. Original cost over $1,200. Will sell for $600. Address The B-B Mfg. Co., 50 Masonic Temple, Davenport, Iowa. 20

## HELP WANTED.

YOUNG MAN—High School Graduate preferred, to prepare for lucrative Gov't Position. Begin with $800 salary. Gradual increase as deserved. Permanent. Box 570, Cedar Rapids, Ia.

We will pay $3.25 per day of ten hours' work every working day in the year to a first-class tinner; traveling expenses for himself if he will come at once and proves satisfactory on a 30 days' trial; must be first-class on general job-work, with some knowledge of operating a brake; no booze fighters need apply. Address "At Once," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 23

Wanted—At once, a helper with two or more years' experience in tinning and plumbing. Must be sober and not afraid of work. State wages in first letter. Young man preferred. Address J. R. Hinman, Rising Sun, Ind. 23

Wanted—Tinner; one who can also wait on trade in store; a general man. W. H. Baker, Benton Harbor, Mich. 23

Wanted—Man who understands plumbing, hot water heating and tinning; state wages and experience. Must be temperate. Address Edson Smith, Elmwood, Ill. 22

Wanted—At once, tinners and sheet metal workers. Good wages and steady employment. The Klauer Manufacturing Co., Dubuque, Ia. 23

Wanted—Good tinner and hot air furnace man. State all particulars in answering. Address Lock Box 315, Alden, Minn. 23

Wanted—At once, tinners and cornice makers. Apply Henry Weyand Co., Inc., Waterbury, Conn. 23

Wanted—A plumber who can do plumbing, hot water and steam heating. Steady work year around and good wages. Ritemiles & Ulmer, Miles City, Mont. 23

Wanted—At once, a good reliable and sober tinner for inside and outside work; must have knowledge of furnace work and some plumbing; state full particulars in first letter; also wages wanted, and send references; steady job to right man. Address Henry G. Groth, Cedarburg, Wis. 22

Wanted—Good all around tinner; one with a knowledge of plumbing, slating and hot water heating; steady job to the right man; answer at once. Address Judson & Miller, Van Buren, Ind. 22

Wanted—Good tinner for all kinds of work; open shop; steady work to the right man. Address Barrett Hardware Co., Joliet, Ill. 22

Wanted—A good tinner and furnace man; must be strictly sober; steady job and good wages. Address O. W., Johnston, Marshall, Mo. 22

Wanted—A tinner; one that does roofing and spouting and general job work. Address Chas. Wolf, Mt. Vernon, Ohio. 22

Wanted—Salesman, complete line of quick selling stoves, ranges and hardware specialties; liberal commissions; state territory covered. Address B. S. Co., 859 Rose Bldg., Cleveland, Ohio. 22

Wanted—Tinner who has some knowledge of plumbing and understands hot air furnace work; a steady job every day in the year (except Sunday) for the right man. Address at once Dooley & Dooley, Rockville, Ind. 23

Wanted—4 or 5 first-class plumbers; must be experienced on lead work. Address Box 85, Detroit, Mich. 22

Wanted—Good tinner capable of handling all work in this line; must be sober and reliable, with some knowledge of plumbing. Call on Boyd Bros., Glen Ellyn, Ill. 22

Wanted—Good all-around tinner; one who understands blow-pipe work preferred. Address Fred W. Giese, Escanaba, Mich. 22

Wanted—Tinners to increase their income by soliciting subscriptions for THE AMERICAN ARTISAN. Address "Subscription Department," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 22

Wanted—Salesmen to increase their income by soliciting subscriptions for THE AMERICAN ARTISAN. Address "Subscription Department," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 22

Wanted—A foreman for tin shop. Must understand cornice work and hot air heating. State wages expected. Hoernell Hdw. Co., Racine, Wis. 22

Wanted — A competent, steady tinner that can do plumbing, hot air and hot water heating. Steady job the year around. State full particulars in your next letter. Married man preferred. Address "Central Wisconsin," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 21

Wanted—A good tinner, who is capable of handling all work in this line. Must be sober and reliable and willing to do any work about the store. We will pay good wages the year around to the right man. Write, giving age, experience and reference, to Noah Keller & Son, Woonsocket, S. D. 21

Wanted—A good all around tinner who understands all kinds of tin work. Steady job to right man. Give age and length of experience; also state wages wanted. South Dakota town. Address "R. Br.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21

Wanted—Tinner; steady job for the right man; must be sober; willing to work at anything I have to do, clerk in the store, work at farm machinery, canvas the country. Must furnish good references. Address W. D. Kable, Kirkland, Ill. 21

Wanted — Experienced stove salesman for either Iowa, Illinois or Indiana to represent a Chicago firm. Address "Commission," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 21

Wanted—At once, first-class tinner for inside and outside work; also furnace work. Must speak German. State wages in first letter. All correspondence answered at once. Address W. W. Wasley, Sauk City, Wis. 21

Wanted—A good sober tinner and furnace man who wants a job the year around in an Iowa town of 10,000 inhabitants. Give particulars in first letter. Address "Tinker," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 21

## SITUATIONS WANTED.

Wanted—Position as tinner by German American. Six years experience at inside and outside work. References furnished if desired or will work on trial. Address "Tink," care of Ebert Hdw. Co., Truman, Minn. 21

Situation Wanted — Young hardware man of 26 with both wholesale and retail experience would like position as buyer or manager of hardware business. Address "C. R. H.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 21

Wanted—By hardware man of 18 years' experience; strictly temperate; speaks Scandinavian, road position with reliable wholesale house or hardware specialties on salary or commission. Iowa or Minnesota territory preferred. Address "The Specialties," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 21

**FOR SALE**

Block stock, company chartered, permanent salaried position, choice president or general manager. The writer capable and willing to fill either place. Stockholders are bankers, business men, mechanics and manufacturers. Capable man with limited capital needed.

Address "Stove Works," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 22

## FOR SALE

or Lease—Patent on circulating radiator. Saves 50 per cent soft fuel; 30 per cent hard. Shop rights, $5.00 each. Heaters, $1.50 each. Address M. J. Stevens, Atkins, St. Clair Co., Mich. 2t 22

## WANTED

A stove salesman to cover retail trade tributary to Indiana. Must be man of ability and integrity. In replying, state age, experience had, wages wanted to start; also furnish name of last employer.

Address "Box 976," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago Ill. 23

## WANTED

To buy a set of patterns for an up-to-date cast iron furnace.

Address "Wood," care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 19.

## WANTED:

to correspond with parties manufacturing a first class medium-priced line of cast coal cooks, also a medium priced line of cast wood cooks suitable for Minnesota and Dakota trade, in sizes of oven 16 to 20.

Address—"Cooks."
Care THE AMERICAN ARTISAN.
69 Dearborn St., Chicago, Ill. 19

## HARDWARE BUSINESS FOR SALE.

Stock of shelf and heavy hardware, stoves, ranges, glass, oils, paints, sash, doors, etc. Stock will invoice from $15,000 to $17,000. Located in a thriving town of 5,000 (200 houses built last year). In the rich agricultural section of Idaho.

Doing the largest and most profitable hardware business in town. Unusual opportunity. Owners wish to retire.

Address "Box 201," care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago, Ill. 21

## Great Britain

I offer exceptional opportunities for selling American specialties in England. Increase your business. Send me your catalog and special prices. References irreproachable.

**P. T. STERN,**
**11, Queen Victoria St., London, Eng.**
Cable address: "Quizzing, London."

**$25 ON 5 TON**
Is what you can save
We make all kinds of SCALES.
WRITE FOR PRICES
Also B. B. PUMPS and WIND MILLS
BECKMAN BROS., Des Moines, Ia.

## WANTED

A competent and reliable Stove and Range Salesman to sell on commission in Nebraska and Southern South Dakota. An up-to-date and complete line, well known and specially suited to the territory's requirements.

Address "E. S." care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 21

## CEYLON PLUMBAGO

We are prepared to supply Ceylon plumbago to the American market cheaper than elsewhere. Samples are to be seen at the office of this Journal, as well as at the office of the Merrick Foundry Supply Company, Toronto, Ontario, Canada. 30 shillings per ton freight to New York harbor.

**J. WICKRAMANAYAKA & CO.,**
**Kalutara, Colombo, Ceylon.** 15

## WANTED

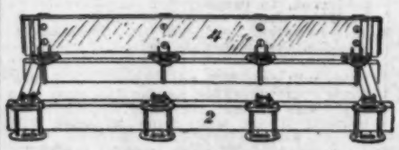
Traveling Salesmen in Iowa, the Dakotas, Minnesota, and Nebraska, to sell stoves. Address "Box 22," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 20

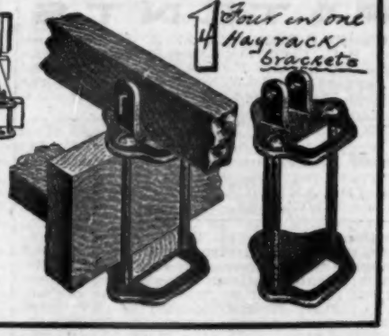
C. N. HOOPER, Dubuque, Ia.

## VITREOUS ENAMELING

**TECHNOLOGIST**

Designs, builds and starts new plants. Improves quality and reduces the costs in those already established.






## NORRIS & LORING HDW. CO.,

Exclusively Wholesale.
**CEDAR RAPIDS, IOWA.**

A business man being asked by an advertising solicitor for an "ad." answered, "I did a great deal of advertising when I started in business and now I am well enough known to get along without it." The solicitor asked him if he knew who had run for the office of Vice-President the election before last. The business man did not. The solicitor then asked him if anyone had been better advertised at the time. This brought the "ad."

## DIXON'S Silica-Graphite PAINT PREVENTS RUST

MANUFACTURED ONLY BY THE
Joseph Dixon Crucible Co., Jersey City, N.J.

**METAL SHINGLE ROOFING**

With Montross Telescope Side-lock is the best roofing in the world for house or barn. ☞ Storm proof. Easily applied. Catalogue. Prices and Testimonials free for the asking.

**Montross Roofing Co., Camden, N. J.**

**4 in. I-Rack Brackets**

Makes Wagon Box, Hay, Hog and Wood Racks made from best malleable iron.

Farmers seeing these will have no others.

**Over 30 Jobbers ve them, including**

Hibbard, Spencer, Bartlett, & Co. Chicago, Ill.
Farwell, Ozmun, Kirk & Co., St. Paul, Minn.
Norwell, Shapleigh & Co. St. Louis, Mo.

**Price to Dealers, $2.00. Retail, $2.75.**

To get them introduced will make 3 Sets for $6.00, F.O.B. at any station east of Missouri River. This offer is good for first order only. 25 10, 30 net if ordered at once direct from me.

**Ask for Circulars and further Information.**

**J. T. SWAN, Auburn, NEB.**

**PATENT LIGHTNING PORTABLE PUNCH**

**No. 3; a high grade tool, adapted to all forms of curved or flangework; pays for itself every week in the year.**

Cap 3-16 iron.

For catalog and price address

**American Lock Nut Company, Oregon, Illinois.**

**Standard Rural Mail Box.**

**Approved by the Postmaster General.**

**Made of Heavy Galvanized Iron, Strong and Durable.**

**HOPSON-HAFTENCAMP CO.**

**25-27-29 Campau St., Grand Rapids, Mich.**

DEALERS WHO SELL THE NEW

**Pelouze Family Scales**

with the handsome silver finished dials sell the **best** in the scale maker's art.

**Capacity, 24 pounds by ounces. Warranted.**

The springs used in all Pelouze Scales are made of the best crucible cast steel wire.

Every scale has a patented adjusting screw; cannot fall off and cause trouble.

*Ask your jobber for the Pelouze make.*

Send for Catalogue G; 40 styles.

**PELOUZE SCALE & MFG. CO.**

**118-130 W. Jackson Boul., CHICAGO**

**THE BASKET BANK.**

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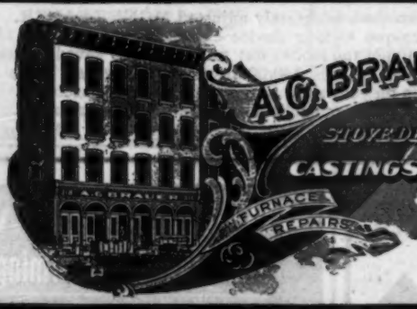


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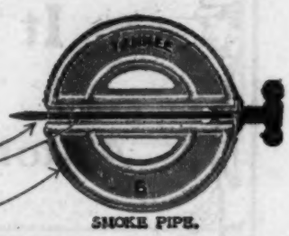

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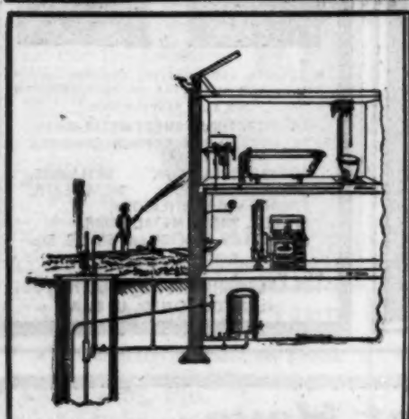

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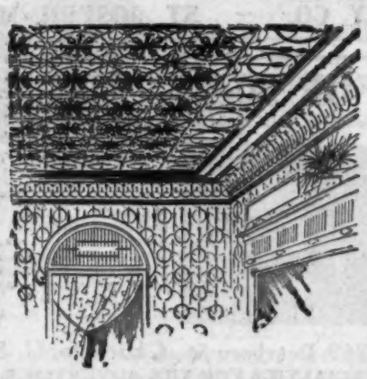

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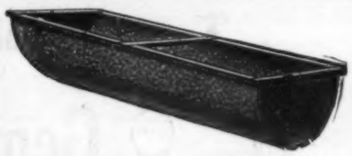

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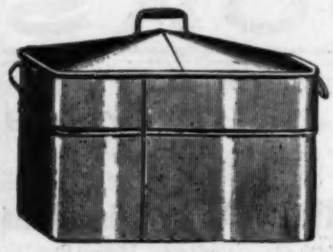

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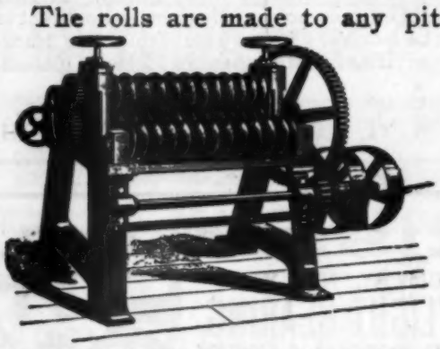

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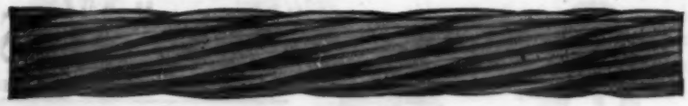

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**Janesville Hay Tool Co.**

Sole manufacturers of the celebrated

**DEAD LOCK LINE**

Hay Carriers, Hay Slings, Forks, Pulleys, Etc. Hand and Barrel Carts.

These goods have been before the public 20 years and always give satisfaction.

Send for catalog and price list.

**Janesville Hay Tool Co.,** 59 CLARK ST., CHICAGO.

# The "1900" BALL BEARING WASHERS

"1900"

There is not a machine on the market to-day that is as satisfactory or does the work as well as our washers.

"1900 JR."

**They Work on an Entirely New Principle.**

There are no wheels, paddles, rockers, cranks or complicated machinery to get out of order. They revolve on **Ball Bearings,** making them by far the easiest running machine made.

Simplest, easiest, most efficient machine for washing clothes ever invented.

The greatest labor-saving machines ever invented for family use.

DOMESTIC

Address

## The "1900" Washer Co.

BINGHAMTON, N. Y.

HOME

# "Boss" Washing Machines

Roller gearing of steel; speed, 19 three-quarter reversals to dasher to only 25 turns of wheel. Large tub and rub-block. Stave leg. Cypress tub.

**Illustrations represent the two best sellers. Every dealer should handle these two styles. Your jobber has them in stock. When ordering, mention our brands and insist upon getting the genuine article.**

Double rub-board and all connections are detachably connected by means of our patent connections. No screws, bolts or cotter pins to manipulate. Its identity known by peculiar shape, but never Boss unless our label appears on casing.

**We make twelve (12) styles of washers, covering every style in demand. We want every dealer to have one of our catalogues, latest issue. Write at once. Mention this paper.**

## BOSS WASHING MACHINE CO., Cincinnati, O.

# Sunshine "ALUMYNOID" Washing Machines

## THE "WHITE DASHER" LINE

Cut on left represents our Sunshine "Alumynoid" without special heating attachments. It can be operated by turning the wheel either forward or backward. Absolutely no wood used in the construction except for the legs. Weight, 52 pounds.

Cut on right shows the machine with cover raised disclosing the White Porcelain Enameled Iron Dasher and the Balance Wheel which **remains attached to the body of the washer.** You don't have to lift the heavy balance wheel as with all other washers.

Cut on right shows our Sunshine "Alumynoid" with gas burning attachment. Our gas burners are of sufficient capacity to heat 20 gallons of cold water to the boiling point in 20 minutes at the cost of one-half cent per hour. All our washers are heavily coated with yellow enameled paint which is guaranteed not to chip off or crack. The cover and top are enameled with three coats of white enamel.

Alumynoid is the result of years of experiment. It is a combination of Aluminum, Tin and Spelter, mixed so as to secure at once Lightness, Durability and Rust Proof qualities. This metal is not coated or plated, but is solid all through. Sunshine "Alumynoids" run easily and you will notice that the fat of the land use them. We sell to the retail trade direct and only allow one dealer in each town to represent us.

"S. P. Q. R." is our motto —small profits, quick returns.

On the left you will observe our White Porcelain Enameled Dasher, white enameled cover and detached fly wheel. The powerful gasoline burner is swung out ready for lighting. When the burner is not in use, it can be **instantly detached.**

On the right you will see our machine ready for use with the gasoline burner in position boiling the water, while the washer is in operation. The burner when in full blast will consume only one cents worth of gasoline per hour.

**QUINCY WASHING MACHINE CO., Quincy, Ill.**

Cable Address—Vainica.
Codes—A B C, 4th Edition
and Western Union

# Carr & Co.

EXPORTERS
OF

**Agricultural Implements Wagons, Carts**

**Grindstones, Etc.**

CORRESPONDENCE SOLICITED

NEW YORK CITY.

# The Mack Washer

MR. DEALER:—When Mrs. Sellmequick comes into your store and buys a Mack, your future is assured. You have made a friend for life. A satisfied customer is the best investment. All washers have some good points; some have all good points. The Mack is superior because it contains the three essential points to make a good Rotary Washing Machine.

**HIGH SPEED**

Washer operates from 2½ to 3½ times faster than other Rotary Machines that operate with handle on balance wheel.

**LIGHT RUNNING**

With each revolution of the crank the balance wheel revolves six times, giving such a momentum there is no jirk to the running.

**DURABILITY**

Made of Virginian Cedar—has corrugated sides and bottom—legs bolted on solid with four galvanized bolts—castings aluminum brass fastened with bolts instead of screws. Circulars explain more completely.

**S. McGranahan, Davenport, Ia.**

**BARKEEPER'S FRIEND.**

Marble, Glass, Nickel, Brass, Copper, Tin and German Silver

can all be cleaned and polished with it easier than with anything else.

Price 25c per lb.

Let us send you a free sample.

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295 E. Washington St.
INDIANAPOLIS - IND.

FOR SALE BY JOBBING TRADE

# Let the WHITE LILY

**Do the Work.**

Secure the AGENCY for the

**White Lily Washing Machine**

It is the Best Seller on the Market.

HIGH SPEED LIGHT RUNNING HANDSOME FINISH and GUARANTEED.

**Only one dealer in each town can get them. Write for particulars.**

**WHITE LILY WASHER CO.**

TOLEDO, Ohio, - DAVENPORT, Iowa.

"White Lily Washers wash lily white."

**4 Trains a Day**

via the

**MONON ROUTE**

CHICAGO INDIANAPOLIS & LOUISVILLE RAILWAY

and C. H. & D. Ry.

**Only 8 Hours**

from

**CHICAGO**

to

**CINCINNATI**

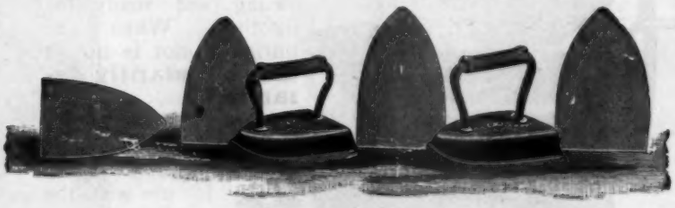
BY DAY, Parlor and Dining Cars
BY NIGHT, Palace Sleeping and Compartment Cars.

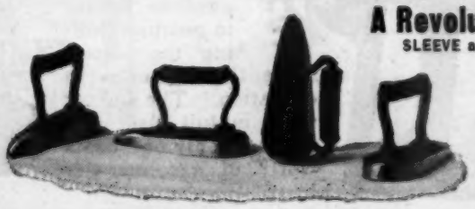
CHAS. H. ROCKWELL, Traffic Manager.
FRANK J. REED, Gen. Pass. Agt.
200 Custom House Place, CHICAGO.

# SAD IRONS

**Unsurpassed in Style of Finish or Shape**

**Coated with Black Japan or Finished Plain as Desired**





**A Revolution** has been wrought in the manufacture of SLEEVE and FLOUNCING SAD IRONS by our iron with BLUNT NOSE which insures perfection of work and perfect freedom from destruction of garments from snags, etc. Made in sizes, 3 and 4 lbs. each and coated with Heat Proof Aluminum Enamel. Face, Sides and Heel Highly Polished.

**BLACKLOCK FOUNDRY**
SOUTH PITTSBURG, TENN.

Galvanized Steel Chain Pumps and Tubing

Send for catalog.

SANITARY PUMP & TUBING CO.
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Sash Balances

Are you selling them?
In use everywhere.
Look for the Metal Tapes in all New Buildings.
Folder No. 2 sent free.
PULLMAN MFG. CO.
ROCHESTER N. Y., U. S. A.

12 HOURS 12

St. Louis
TO
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VIA THE
IRON MOUNTAIN ROUTE
Train leaves ST. LOUIS 8.20 p. m. daily
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Descriptive and Illustrated Pamphlets FREE on application to Company's Agents.

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H. C. TOWNSEND, GEN'L PASS'R & TKT. AGT., ST. LOUIS, MO.

J. F. LEWIS, Cisco, Ill., Writes
"I cannot get along without The American Artisan"

The "PARAGON"
CYLINDER WASHER

*"The sweetest tiredness on earth*
*Is to git home and flatten out—*
*So tired you can't lay flat enough,*
*And sorto' wish you could spred*
*Out like molasses on the bed,*
*And jest drip off the aidges in*
*The dreams that never comes again."*
*—Riley*

That's the story of a boy. It goes with women too. They need more time to enjoy God's good sunshine. Tell them about "The Paragon." It's not a perpetual motion machine, but it acts like one. It does the work of about twenty pairs of husky arms too.

PARAGON means PERFECTION

J. M. GAGAN & CO. Manufacturers
CHICAGO, U. S. A.

OVER 100,000
OCEAN WAVE WASHERS
Now in use. We sell only to one dealer in each town.
Write for prices and terms.
Voss Bros. Mfg. Co.
DAVENPORT, IOWA.
DISTRIBUTING POINTS:
Kansas City, Council Bluffs, Sioux City, St. Paul, Milwaukee, St. Louis, Indianapolis, Detroit, Columbus, Elmira, N. Y., Albany, N. Y., Philadelphia, Pa.

Have you ever considered the advantage of the
IMPROVED SCHROEDER ROTARY ROLLER GEARING WASHER?
No steam escapes, prevents disagreeable odors from permeating the house, keeps water hot longer, is light running, simple and durable.
The most successful rotary washer on the market.
WORKS SO EASILY A CHILD CAN OPERATE IT.
We can tell you more if you want to know, it is to your interest as well as ours. Why not write us?
THE BENBOW-BRAMMER MFG. CO.
ST. LOUIS, MO.

Do You Know
That the O. K. WASHING MACHINE
is the best made, the lightest running and the most attractive washer on the market? *Are you selling it? If not, why?* Every first-class dealer should sell it, because it is made of the best materials, by the best mechanics that can be obtained, and every one sold will sell another.
*Write us for Circulars and Prices.*
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Made from our famous Bo-Ras-Ic steel with steel ferrule and rosewood finished handle. So constructed as to be perfectly secure in the handle—thus, its name, "Neverturn."

Send for the "Green Book" of Hardware Specialties for further particulars and price.

**SMITH & HEMENWAY CO.** Mfrs. of Cutlery and Hardware Specialties.

**UTICA DROP FORGE & TOOL CO.** Mfrs. Nippers and Pliers.

296 BROADWAY, NEW YORK, N. Y.

## Cronk's Star Pruning Shears

The blades are made from fine tool steel and fully warranted. Are equal to the best and nearly as cheap as the cheapest.

THE CRONK & CARRIER MFG. CO., ELMIRA, N. Y.

## The ECLIPSE Nested Stove Pipe Thimble

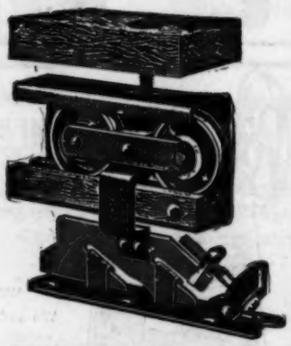
BEST ON THE MARKET

PATENT PENDING

Saves 80 per cent of room.
Is stronger than a hand made riveted thimble.
Is always ready to hook together.
Is made that the lug passes through two slots and then tied.
The lug is always on top; therefore the LUG is not an objection to the entering stove pipe.
It is always kept nice and clean in a box; therefore no unsightly rusty looking thimbles to adorn the stores.
Galvanized iron; 5, 6 and 7 inch.

STUBER & KUCK, Manufacturers of Pieced Tinware and all Styles Flour Sifters Peoria, Ill.

## RICHARDS AUTO



Ball-Bearing, Noiseless, House Door Hanger combines all the best features and is a trade winner.

We make all the leading styles of door hangers for sliding doors. Catalogue free.

THE RICHARDS MANUFACTURING CO.
AURORA, ILL., U. S. A.

## UNION BRICK HANDLER

A Money Saver.
Full size sample.

Delivered-Express
$3.50

Union Brick Bond Co., PITTSBURG, PA.

## IMPROVED Oblique Tumbling Barrel

Barrel can be adjusted to run in any desired position, thus rattling the parts more or less violently to suit the material from which they are made.

Send for Catalogue A.

The Globe Machine & Stamping Co.
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## $3.00 SAVED

TO ALL POINTS EAST AND WEST VIA THE D&B LINE.

"Just Two Boats" BETWEEN DETROIT & BUFFALO

DETROIT & BUFFALO STEAMBOAT CO.

THE LAKE AND RAIL ROUTE
WORLD'S FAIR, ST. LOUIS
DAILY SERVICE, MAY 26th

Improved Express Service (14 hours) Between
DETROIT AND BUFFALO
Leave DETROIT Daily - 4.00 P. M.
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Connecting with Earliest Trains for all Points in NEW YORK, PENNSYLVANIA and NEW ENGLAND STATES.
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Connecting with Fast Express Trains for WORLD'S FAIR, ST. LOUIS and THE WEST, with D & C. N. Co. for Mackinac Island and Northern Michigan Resorts.
Rate between Detroit and Buffalo $3.50 one way, $6.50 round trip. Berths $1.00, $1.50; Staterooms $2.50 each direction.
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RAIL TICKETS HONORED ON STEAMERS
First-class, Second-class, Tourist Special, Conventions (World's Fair, St. Louis) reading via Grand Trunk Ry. or Michigan Central Ry. between BUFFALO and DETROIT will be accepted for Transportation on D. & B. Stms. { A. A. Schantz, G. S. & P. T. M., Detroit, Mich.

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By R. C. Carpenter.

Price, $3.00

For Sale by . . . .

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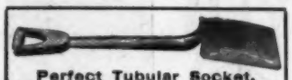
69 Dearborn St. CHICAGO.



Perfect Tubular Socket.
Patented Plain Back.

## NOW IS THE TIME TO WRITE US ON THE SUBJECT

We think we have interesting prices on Snow Shovels, Furnace Scoops and Sidewalk Scrapers, for fall delivery. Write for our catalogue of "NEVER-BREAK" goods, and price list of our Hollow Back and Patented Plain Back Shovels, etc.

**THE AVERY STAMPING CO., Cleveland, Ohio.**

"The first and only makers of "NEVER-BREAK" Goods."

## Magic Pattern Rule

**Lufkin Rule Co.,**

Saginaw, Mich.

Will lay out patterns for any size and angle of elbows in three minutes' time. Can also be used as Straight-edge Rule, Circumference Rule and Trammell. Should be in every Tinshop. Will save its cost in a few weeks. Thousands are in use and every one giving excellent satisfaction. Price, complete in a nice wooden box with Chart, $4.00 net cash. (Mention THE AMERICAN ARTISAN.)

# Stanley Rule and Level Co.

**IMPROVED CARPENTERS' TOOLS** Sold by All Hardware Dealers

NEW BRITAIN, CONN.

**E. H. TITCHENER & CO.**

**STAPLES AND WIRE SHAPES**
IN ALL VARIETIES.
Binghamton, N. Y., and 42 No. Peoria St., Chicago.

8½ inches long. Jaws take from 1/16 to ½. Cuts bolts for pump rods.

SPECIAL WRENCH FOR PUMP RODS.

Has more uses than any wrench made.

You can't break the jaws off this wrench.

Will Remove
"NEVERSLIP" and "ROWE" CALKS
The Best Wrench Made

Every one buys HAWKEYE WRENCH on sight; all that's necessary to sell it is to show it. It should be in every Hardware Store. Be the FIRST in your town to have it in stock.
SOLD BY ALL JOBBERS.

HAWKEYE WRENCH CO., Mfrs., Marshalltown, Ia

Made in two styles—different size thread for Pump Rods.

## FIRE - PROOF WINDOWS

(Patented)

Made of Galvanized Iron.
Glazed with Ribbed or Wire Glass.
Operate Automatically or Otherwise.
Approved universally by Insurance Companies.
Write for Catalog and Prices.

**THE W. J. BURTON CO.**
Detroit, Mich.

## SPERRY'S CALDRONS

Twelve sizes always in stock.

Full measure, guaranteed perfect, original patterns, with metal distributed where it is needed. Many Caldrons are made from our castings as patterns. They are inferior to originals, as they have light bottoms and heavy sides and hold less.

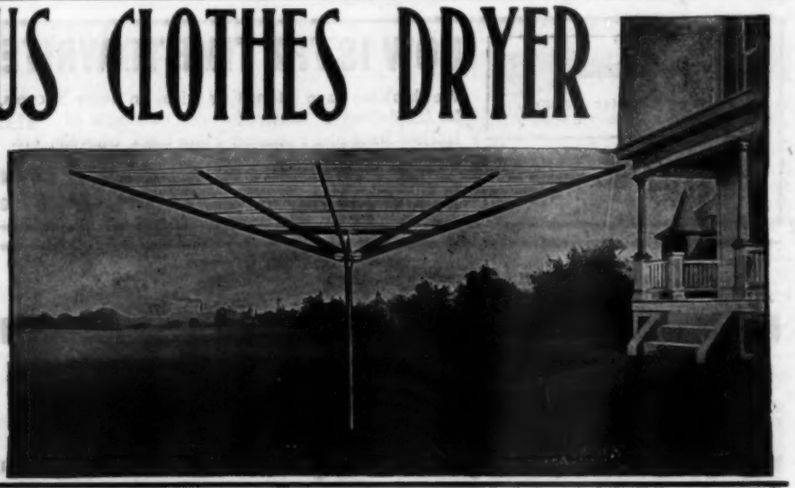
**D. R. SPERRY & CO.** Hollow-Ware Founders, **BATAVIA, ILL.**

## ECLIPSE AKRON MASON'S PLUMB & LEVEL

Made from clear pine, with new patent adjustable attachment.

THE BAKER, McMILLEN CO., AKRON, O.

# Hill's FAMOUS CLOTHES DRYER



**For Lawns, Fire Escapes, window balconies, and piazzas**

**BEST AND MOST POPULAR DRYER IN THE WORLD.**

Samples to Dealers at Trade Prices.

We Also Make the **HUSTLER ASH SIFTER**
THE GREAT COAL SAVER

Made Only By

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**Worcester, Mass.**

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## THE KING
### Cream Separator

separates all the cream. No cranks to turn, no crocks or pans to wash, no skimming to do, no water mixed with the milk. Highest points secured on butter, several thousand sold last year, all giving good satisfaction, price within the reach of all. Write for terms and prices. Mention this paper.

**CHAS. A. VAN PELT,**
**Bloomington, Ill.**

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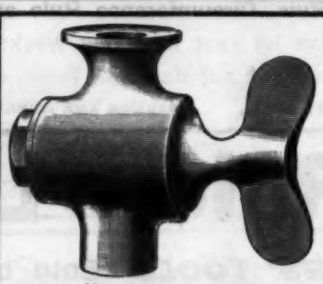

The "OMEGA," 2-3 Size.
To attach to bottom of can.

**BEER, MILK CAN, OIL CAN, CREAM SEPARATOR**

## FAUCETS.

**Various Sizes and Styles.**

MANUFACTURED BY

**CLARK NOVELTY CO.,**
**ROCHESTER, N. Y.**

Also Mfrs. of The CLARK Kerosene Oil System for heating Soldering Coppers.

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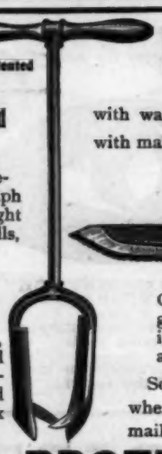
## Iwans Improved Post Hole and Well Auger

Patented



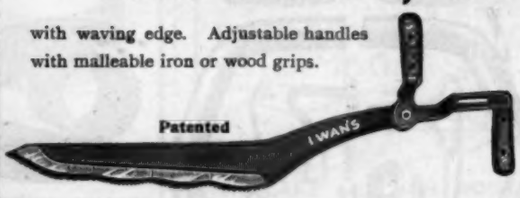
For fence, telephone, telegraph and electric light post holes, wells, prospecting, earth testing, plumbing etc

Sizes 4, 5 6, 7 8, 9 10 and 12 inch, regularly made and carried in stock at all times.

## IWANS Serrated Hay Knife

with waving edge. Adjustable handles with malleable iron or wood grips.

Patented




Cutting edge of four serrated sections of high grade tool steel rivited to strong malleable iron bar. Packed in boxes of one-half dozen and one dozen.

Sold by Hardware and Implement Jobbers everywhere. Complete discount sheet on entire line mailed to the trade on request.

**IWAN BROTHERS** Mf'rs of Hardware Specialties **Streator, Ill.**

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## THE LATEST IMPROVED CREAM SEPARATOR.

The best cooling process. The milk tank is detachable.
Our Separator is guaranteed to do the work.

The cheapest and best deep setting Separator on earth.

WRITE FOR PRICES.

**SEITHER-CHERRY CO.**
**KEOKUK, IOWA.**

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**"LIGHTNING"** **"GEM"** **"BLIZZARD"**

THE BEST ICE CREAM FREEZERS in practical use, because convenient, compact in size, use smallest amount of ice and salt, run easily, freeze quickly, produce smoothly frozen creams or desserts with little bother and less work.

**THE ONLY FREEZERS MADE HAVING**

**Cedar Pails with Electric Welded Wire Hoops,**
**Cans of Heavy Tin with Drawn Steel Bottoms,**
**AUTOMATIC Tin Scrapers.**

SOLD BY LEADING JOBBERS. CATALOG SENT FREE.

**North Bros. Mfg. Co., Philadelphia.**

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If so, don't miss seeing **Warren's Model Hardware Store,** 25 x 45 feet, in the first building at the right from the main entrance—Varied Industries—located on the north side, directly in front of Entrance No. 16.

## THE CLEVELAND & BUFFALO Transit Company

C&B LINE

CONNECTING **CLEVELAND and BUFFALO** "WHILE YOU SLEEP"

UNPARALLELED NIGHT SERVICE, NEW STEAMERS.

**"CITY OF BUFFALO" and "CITY OF ERIE"**

Both together being, without doubt, in all respects the finest and fastest that are run in the interest of the traveling public in the United States.

TIME CARD

DAILY INCLUDING SUNDAY

| LEAVE | | ARRIVE | |
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| Cleveland | 8 P.M. | Buffalo | 6:30 A.M. |
| Buffalo | 8 " | Cleveland | 6:30 A.M. |

CENTRAL STANDARD TIME

Orchestra Accompanies Each Steamer

Connections made at Buffalo with trains for all Eastern and Canadian points, at Cleveland for Toledo, Detroit and all points West and Southwest.

Tickets reading over L. S. & M. S. Ry. will be accepted on this Company's Steamers without extra charge.

Special Low Rates Cleveland to Buffalo and Niagara Falls every Saturday Night, also Buffalo to Cleveland.

Ask Ticket Agents for tickets via C. & B. Line Send four cents for illustrated pamphlet.

**W. F. HERMAN, G. P. A., Cleveland, Ohio.**

## Make More Money

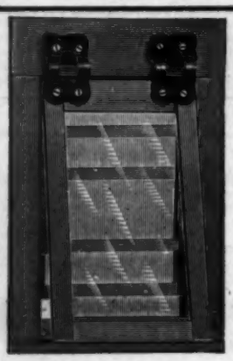
Rural Routes are going in all around you. New boxes are needed on old routes. You should get this business. You *can* get it with

Bates-Hawley Patent **SIGNAL MAIL BOX**

It is the original box for Rural Routes with special endorsements of Postmaster General. The best made, the best liked, the best advertised and the easiest sold.

**SIGNAL MAIL BOX CO.**

106, Benton St., JOLIET, ILLINOIS.



## Gossett's Suspension Hinges

FOR FULL-LENGTH WINDOW SCREENS

Made of steel, japanned. Every pair perfect.

**Beware of cheap, cast substitutes.**

If your wholesaler does not handle GOSSETT'S

WRITE THE MANUFACTURER,

**F. D. KEES. : : Beatrice, Nebraska.**

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### TIN, SHEET IRON AND COPPER PLATE WORK

This is a work of the greatest value to all who work in sheet metal. It describes the method of laying out nearly everything which the metal worker will be called upon to make. Joint, elbows and all kind of kitchen utensils are fully described. The work is supplemented by rules for mensuration and hundreds of valuable receipts. By L. J. Blinn. This book contains 296 pages with 169 illustrations, bound in cloth. Price, $2.50.

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A collection of rules and diagrams, for describing the most useful patterns ordinarily required, preceded by chapters on Sheet Metal Work, Soldering, Geometry as applied to Sheet Metal Working. By W. J. E. Crane. Price, postpaid, 60 cents.

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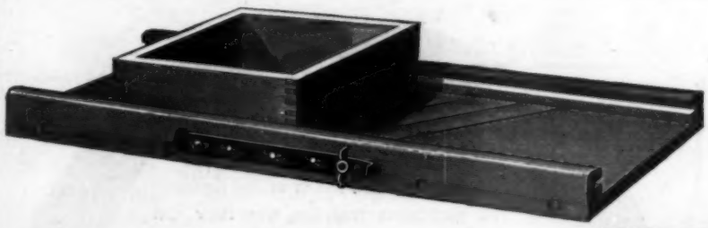

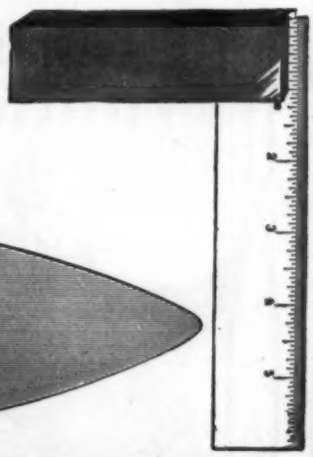

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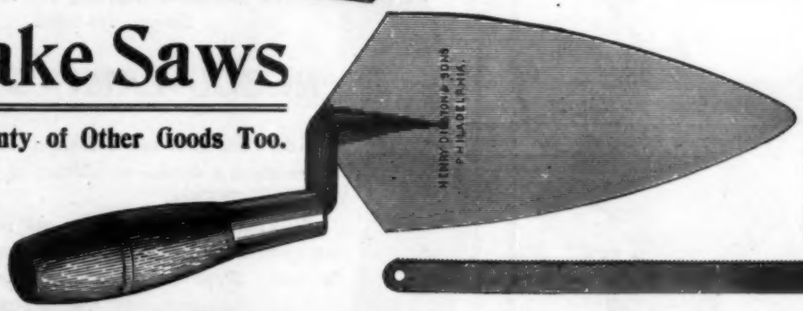

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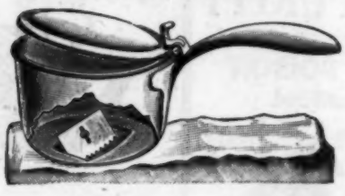

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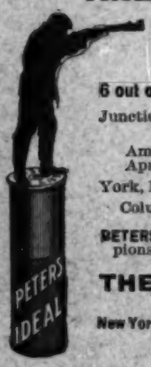


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